# DEPARTMENT OF THE NAVY FISCAL YEAR (FY) 2005 BUDGET ESTIMATES



# JUSTIFICATION OF ESTIMATES FEBRUARY 2004

OTHER PROCUREMENT, NAVY BUDGET ACTIVITY 2

#### Department of the Navy

Exhibit P-1

#### FY 2005 Procurement Program

APPROPRIATION: 1810N Other Procurement, Navy							DATE: Febr	uary 200
			TOA	, \$ IN I	MILLIONS			
LINE	IDENT	(DOLLARS) FY 2005			FY 2		FY 2	
NO ITEM NOMENCLATURE	CODE	UNIT COST	QUANTITY		QUANTITY	COST	QUANTITY	COST
BUDGET ACTIVITY 02: Communications and Electr	onics Equipm	nent						
Ship Radars								
29 2026 SPQ-9B Radar				-		19.3		3.6
30 2040 Radar Support	А			13.4		10.2		- 1
31 2043 TISS	А			-		4.4		- 1
Ship Sonars								
32 2136 AN/SQQ-89 Surf ASW Combat System	А			13.7		15.2		- 1
33 2147 SSN Acoustics	А		2	29.6		266.4		225.0
34 2171 UUV Program				-		-		61.3
35 2176 Undersea Warfare Support Equipment	А			13.4		11.6		14.1
36 2181 Sonar Switches and Transducers	А			15.8		13.5		13.3
ASW Electronic Equipment								
37 2210 Submarine Acoustic Warfare System	А			20.5		25.9		20.9
38 2213 SSTD	А			-		13.7		22.3
39 2225 Fixed Surveillance System	А			60.8		46.0		55.3
40 2237 SURTASS	А			19.9		15.1		7.2
41 2246 Tactical Support Center	А			5.1		9.4		5.1
Electronic Warfare Equipment								
42 2312 AN/SLQ-32	A			1.8		22.3		18.7
43 2340 Information Warfare Systems	А			5.0		4.2		4.0
Reconnaissance Equipment								
44 2360 Shipboard IW Exploit	А			82.1		122.2		69.2
* ITEMS UNDER \$50,000		UNCLASSIFIED	)				P	AGE N-

#### UNCLASSIFIED

#### Department of the Navy

Exhibit P-1

#### FY 2005 Procurement Program

APPROPRIATION: 1810N Other Procurement, Navy DATE: February 2004 \_\_\_\_\_\_ TOA, \$ IN MILLIONS (DOLLARS) ----- S LINE TDENT FY 2005 ----FY 2003---- E NO ITEM NOMENCLATURE CODE UNIT COST QUANTITY COST QUANTITY COST QUANTITY COST C ---------Submarine Surveillance Equipment 45 2560 Submarine Support Equipment Prog A 86.3 70.9 79.0 U Other Ship Electronic Equipment 46 2605 Navy Tactical Data System 7.5 12.0 - [J 47 2606 Cooperative Engagement Capability 70.1 66.6 57.5 U В 48 2608 GCCS-M Equipment 63.4 U 58.4 51.8 49 2611 Naval Tactical Command Support System (NTCSS) A 31.6 51.3 26.2 U 50 2614 ATDLS 9.0 16.1 2.4 U 51 2622 Minesweeping System Replacement 25,985,333 .1 18.2 3 78.0 U 52 2657 NAVSTAR GPS Receivers (Space) Α 11.4 15.5 11.7 U 53 2666 Armed Forces Radio and TV 4.2 4.1 4.2 U 54 2676 Strategic Platform Support Equip 17.6 8.5 5.3 U Training Equipment 55 2760 Other SPAWAR Training Equipment 1.0 - U 56 2762 Other Training Equipment Α 21.5 52.2 42.9 U Aviation Electronic Equipment 57 2815 MATCALS 7.6 4.1 15.6 U Α 58 2831 Shipboard Air Traffic Control 7.8 7.7 U 8.1 59 2832 Automatic Carrier Landing System 11.5 17.4 12.5 U 15.9 60 2840 National Air Space System В 7.0 16.1 U 61 2845 Air Station Support Equipment 6.8 7.5 3.6 U Α 62 2846 Microwave Landing System 7.2 U \* ITEMS UNDER \$50,000 UNCLASSIFIED PAGE N- 5

#### UNCLASSIFIED

#### Department of the Navy

Exhibit P-1

#### FY 2005 Procurement Program

80 3215 Satellite Communications Systems

APPROPRIATION: 1810N Other Procurement, Navy DATE: February 2004 \_\_\_\_\_\_ TOA, \$ IN MILLIONS (DOLLARS) ----- S LINE TDENT FY 2005 ----FY 2003---- E NO ITEM NOMENCLATURE CODE UNIT COST QUANTITY COST QUANTITY COST QUANTITY COST C -----\_\_\_\_\_ \_\_\_\_\_\_\_ 63 2847 FACSFAC Α 4.2 4.3 3.7 U 29.7 21.7 64 2851 ID Systems 18.3 U 65 2876 TAC A/C Mission Planning Sys(TAMPS) 6.8 8.6 9.1 U Other Shore Electronic Equipment 66 2804 Deployable Joint Command and Control (DJC2) A 51.7 32.5 U 67 2901 Naval Space Surveillance System [] 2.0 68 2905 DIMHRS 5.7 – U 69 2914 Common Imagery Ground Surface Systems 51.2 40.3 53.2 U 70 2920 RADIAC 8.2 8.5 9.1 U 71 2940 GPETE Α 6.5 9.9 7.0 U 7.7 8.7 72 2960 Integ Combat System Test Facility 4.7 U 73 2970 EMI Control Instrumentation 5.2 6.4 5.9 U 74 2980 Items less than \$5 Million 12.1 15.3 12.1 U Shipboard Communications 75 3010 Shipboard Tactical Communications 40.0 14.1 U 76 3050 Ship Communications Automation 158.8 180.9 159.7 U 77 3057 Communications Items under \$5M 36.5 29.3 11.9 U Submarine Communications 78 3107 Submarine Broadcast Support 3.7 16.4 17.8 U 109.5 79 3130 Submarine Communication Equipment A 121.4 94.5 U Satellite Communications

\* ITEMS UNDER \$50,000 PAGE N- 6

158.9

234.8

130.6 U

#### UNCLASSIFIED

#### Department of the Navy

Exhibit P-1

### FY 2005 Procurement Program

APPROPRIATION: 1810N Other Procurement, Navy

DATE: February 2004

			(DOLLARS)			MILLIONS			c
LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2005 UNIT COST	FY 20 QUANTITY	03 COST	FY 20 QUANTITY	04 COST	FY 20 QUANTITY	05 E COST C
Shore C	ommunications								
81 3302	JCS Communications Equipment	A			4.1		3.9		3.0 t
82 3303	Electrical Power Systems	А			1.2		1.4		1.3 0
83 3306	NSIPS	А			5.3		. 4		.3 0
84 3311	JEDMICS	А			11.7		6.4		- t
85 3368	Naval Shore Communications	А			97.4		76.3		57.1 U
Cryptog	raphic Equipment								
86 3415	Info Systems Security Program (ISSP)	А			83.9		81.2		88.4 T
Cryptol	ogic Equipment								
87 3501	Cryptologic Communications Equip	А			21.5		24.5		26.1 U
Other E	lectronic Support								
88 3620	Coast Guard Equipment	А			-		12.5		7.6 0
Drug In	terdiction Support								
89 3820	Other Drug Interdiction Support	A			14.6		-		- U
TOTAL	Communications and Electronics Equipment				93.4		018.0	1	,721.1

# Fiscal Year 2005 Budget Estimates Budget Appendix Extract Language

# OTHER PROCUREMENT, NAVY (OPN)

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement [only, and the purchase of 7 vehicles required for physical security of personnel, notwithstanding price limitations applicable to passenger vehicles but not to exceed \$200,000 per vehicle] *only;* expansion of public and private plants, including the land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, [\$4,941,098,000] \$4,834,278,000, to remain available for obligation until September 30, [2006] 2007, of which \$37,373,000 shall be for the Navy Reserve and Marine Corps Reserve. (10 U.S.C. 5013, 5063; Department of Defense Appropriations Act, 2004.)

[For an additional amount for "Other Procurement, Navy." \$76,357,000, to remain

[For an additional amount for "Other Procurement, Navy", \$76,357,000, to remain available until September 30, 2006.] (Emergency Supplemental Appropriations Act for Defense and for the Reconstruction of Iraq and Afghanistan, 2004.)

	BUI	DGE <sup>-</sup>	T ITEM JUSTIFICATION S	SHEET			DATE:				
			P-40					FE	EBRUARY 20	04	
APPROPRIATION/BUDGET ACTI	IVITY				P-1 ITEM NOW	ENCLATURE					
Other Procurement, Navy											
<b>BA-2 COMMUNICATIONS 8</b>	& ELEC	TRO	NICS EQUIPMENT		SPQ-9B RA	DAR- 202600	)				
Program Element for Code B Items	s:				Other Related I	Program Elemei	nts				
	I	ID								То	
	C	ode	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
OLIANITITY											
QUANTITY COST											
			0.0	40.0	2.0	4.7	0.0	44.5	45.0	CONT	CONT
(In Millions)			0.0	19.3	3.6	1.7	0.0	14.5	15.2	CONT	CONT
SPARES COST											
(In Millions)											
EMERGENCY RESPONSE FUND	1										
(In Millions)											
* F . F . C . C . C . C . C . C . C . C .		- 4 4 0 0 0	10=100 : . E\10001								

DESCRIPTION: This program provides for procurement of equipment, materials and Ordnance Alterations (ORDALTS) to improve combat effectiveness of and maintain logistic supportability of Gun Fire Control Systems (GFCS) installed on 65 ships (65 MK 86) and 8 shore installations (8 MK 86).

BR040 AN/SPQ-9B Radar - Procures AN/SPQ-9B Radars to add Anti-Ship Missile Defense (ASMD) capability which increases the radar's capability to detect and track low-flying, very small crosssection targets in natural and man-made clutter. Total inventory objective is 118, in the following ship classes: CG-47, DDG-51, CVN, LHD, DD-963, including Training unit, and LBTS. An FY 04 Congressional Plus Up provides for the procurement of transmitters.

BR042 AN/SPQ-9B Engineering Change Proposals (ECPs) - Procures product improvements generated by ECPs; corrects problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar.

BR830 AN/SPQ-9B Production Support - Supports AN/SPQ-9B Radar program and contractor associated areas.

BR900 AN/SPQ-9B Consulting Services Support - Supports AN/SPQ-9B Radar program with contractor associated areas.

BR5IN/BR6IN - Installation of Equipments - Provides funding to install ORDALTS and AN/SPQ-9B Radars, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)

P-1 SHOPPING LIST

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Funding for the SPQ 9B was budgeted in BLI 511000/05/06 prior to FY 2004

# **UNCLASSIFIED**

	WEAPONS SYSTEM COST ANALYSIS P-5											DATE: <b>FE</b>	BRUARY	2004
Other F	PRIATION/BUDGET ACTIVITY Procurement, Navy/ OMMUNICATIONS & ELECTRONICS EQUI	DMENT	F		DMENCLATURI		AD					A2BR		
DA-2 C	OMINIONICATIONS & ELECTRONICS EQUI		OTAL COST IN			000						AZDIN		
COST	ELEMENT OF COST	ID Code					FY 2003			FY 2004			FY 2005	
			Quantit	y Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
BR040 BR040 BR042 BR830 BR900	EQUIPMENT AN/SPQ-9B Radar CFETransmitter Tech Refresh Backfits Engineering Change Proposals (ECPs) AN/SPQ-9B Production Support AN/SPQ-9B Consulting Services INSTALL Installation of Eqmt FMP (AN/SPQ-9B) Installation of Eqmt NON FMP (AN/SPQ-9B)  TOTAL	A							1 8	5,732 1,213 725 725	5,732 9,700 732 957 0 725 1,449	3	909	249 609 0 2,726
											19,295			3,584

DD FORM 2446, JUN 86 CLASSIFICATION:

ITEM NO. 29 PAGE NO. 2

# **UNCLASSIFIED**

<b>BUDGET PROCUREM</b>	ENT HIST	ORY AND	PLANNING EXI	HIBIT (P-5A)		Weapon System		A. DATE		
								F	EBRUARY 2	2004
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM	IENCLATURE			SUBHEAD	
Other Procurement,										
<b>BA-2 COMMUNICAT</b>	TIONS & F	ELECTRO	NICS EQUIPM	<u>/IENT</u>		DAR - 202600			A2BR	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FISCAL YEAR (04) BR040 AN/SPQ-9B Radar	1	5732	NAVSEA	May-03	SS/FFP	NORTHROP GRUMMAN	Mar-04	Sep-05	YES	
						NORDEN SYSTEMS, INC. MELVILLE, NY				
BR040 Xmtr Tech Refresh Backfits	8	1213	NAVSEA	May-03	SS/FFP	NORTHROP GRUMMAN NORDEN SYSTEMS, INC.	Jul-04	Oct-05	YES	
D. REMARKS										

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CLASSII ICATION.	UNCLASSII ILL	,

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

P3A	INDIVIDUAL MODIFICA	TION			FEBRUARY 2004	
MODELS OF SYSTEM AFFECTED:	AN/SPQ-9B Radar	TYPE MODIFICATION:	N/A	MODIFICATION TITLE:	AN/SPQ-9B Radar	
DESCRIPTION/JUSTIFICATION: Adds Anti-Ship Missile Defense mode: de	tects and tracks low-flying, extremely s	mall radar cross-section targ	ets in clutter.			

MS II 10/94; CA 10/94; CDR 7/95; LBTS DT 10/98; DT/OT FY03; MS III FY04

	FY 2001 &			2002		2003		2004		2005		2006		2007		2008		<u>/2009</u>		TC _		TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E	2	80.0	0	0.0	0	0.0	0	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	81.9
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	6	30.6		0.0		0.0	1	5.7		0.0		0.0		0.0	2	12.9	2	13.1			11	62.3
EQUIPMENT NONRECURRING		9.4					8	9.7														9.4
ENGINEERING CHANGE ORDERS		12.8		0.0		0.0		0.7		0.2		0.0		0.0		0.6		0.4				14.9
DATA																						
TRAINING EQUIPMENT	2	9.7																			2	9.7
SUPPORT EQUIPMENT		8.5																				8.5
OTHER (PRODUCTION SUPPORT)		7.6						1.0		0.6		0.8		0.0		1.0		0.9				11.9
OTHER (CSS)		1.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0				1.6
OTHER (non-FMP Install)								1.5														0.7
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST		2.4		0.0		0.0		0.7		2.7		0.9		0.0		0.0		0.8				7.6
TOTAL PROCUREMENT		82.6		0.0		0.0		19.3		3.5		1.7		0.0		14.5		15.2		•		126.6

CLASSIFICATION: UNC	LASSIF	ED																		
P3A (Continued)																				
MODELS OF SYSTEMS	AFFECT	ED: AN/SPQ-9	В	MOI	DIFICA	ATION TITL	E:	AN/SPC	Q-9B								-			
INSTALLATION INFORM METHOD OF IMPLEMEN ADMINISTRATIVE LEAD	NOITATI		LATION	,	•	N LEADTIN	1E:	18	3 Moi	nths										
CONTRACT DATES:	-			FY 200			ul 02				2003:		Jul 02							
DELIVERY DATE:				FY 200	2:	J	an 04			FY	2003:		Jan 0	4						
Cost:	LEVA	001 & Prior Years	l rv	2002	1	FY 2003	1 -	Y 2004		Millions) FY 2005	1 1	Y 2006		′ 2007		Y 2008	L	2009	<del></del>	otal
COSI.	Qty	\$	Qty	\$	Qty	\$	Qty		Qty		Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$
		·	4.9		۵۰٫	<u> </u>	۵.,	Ţ	α.,	<u> </u>	Δ.9	Ť	α.,	*	رن	•	α.,	*	4	•
PRIOR YEARS FY 2002 EQUIPMENT	4	2.4																	4	2.4
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT							1	0.1	7										1	0.7
FY 2005 EQUIPMENT									3	2.	7								3	2.7
FY 2006 EQUIPMENT											1	0.9							1	0.9
FY 2007 EQUIPMENT														0.0					0	0.0
FY 2008 EQUIPMENT																0.0			0	0.0
FY 2009 EQUIPMENT																	1	0.8	1	0.8
TO COMPLETE																				
INSTALLATION SCHE	:DIII E:																			
FY 2001	1 -	FY 2002	FY 2	2003	TI	FY 2004		FY	2005		FY	2006		FY 2007		FY 2	2008	FY 2009	<u>TC</u>	
& Prior	1	2 3 4	1 2	3 4	1		3 4		3		-		1	2 3	4			4 1 2		TOTAL
In 4	0	0 0 0	0 0		0	0	1 0	0 1	1	1 0	1	0 0	0	0 0	0	0 0	0	0 0 1		
Out 4	0	0 0 0	0 0	0 0	0	0	1 0	0 1	1	1 0	1	0 0	0	0 0	0	0 0	0	0 0 1		
																P-3A	١			

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		BUDGET ITE	M JUSTIFICATION	SHEET			DATE:			
			P-40					Februa	ry 2004	
APPROPRIATION/BU OTHER PROCUR					P-1 ITEM NOM	ENCLATURE			-	
<b>BA-2 Communic</b>	ation & Elect	t. Eq			-	THERMAL IN	IAGING SEN	SOR SYSTE	M (TISS) 2043	3
Program Element for	Code B Items:				Other Related I	Program Elemer	nts			
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total
QUANTITY										
COST (In Millions)	N/A	A	0.0	4.4	0.0	0.0	0.0	0.0	0.0	4.4
SPARES COST (In Millions)	N/A	A								

Description: The Thermal Imaging Sensor System is a lightweight, state-of-the-art imaging/laser system manufactured by various competing corporations. Funds are requested to acquire Electro-Optic (EO) capabilities for improvement of Integrated Ship Defense (ISD) system against air Anti-Ship Missile defense and surface (mine and small boat attack) threats in support of the Navy's Anti-terrorism/Force Protection Initiative. TISS is a Non Developmental Item (NDI) procurement which was developed in FY 95. Increased technology in the open market will allow for increased capability and reduced system cost. TISS is currently installed on twenty-one ships.

Note: NO ERF,D funding received

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION: UNCLASSIFIED

	WEAPONS	SYSTEN P-	II COST AN	ALYSIS				Weapon Sy	/stem				DATE: February 2004	ļ
Other	OPRIATION/BUDGET ACTIVITY Procurement, Navy COMMUNICATION & ELECT. EQ.					ID Code			ATURE/SUB LIMAGING		SYSTEM	(TISS)	SUBHEAD:	A2UT
BAZG	Commonway Ton & LLLon. Lg.		TOTAL CO	ST IN THO	USANDS O	F DOLLARS		DEI // 2040						ALUI
COST	ELEMENT OF COST	ID Code					FY 2003			FY 2004			FY 2005	
						QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST	QTY	UNIT COST	TOTAL COST
	N76 SPONSOR EQUIPMENT							330.		333.				300.
UT002	Logistical Engineering Change Proposal	A									4.367			
TOTAL								0			4.367			0.000

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P-1 SHOPPING LIST

CLASSIFICATION:

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BUDGET PROCUF  B. APPROPRIAT  Other Procurement, N BA-2 COMMUNICATIO	ION/BU	JDGET A		IING EXHIBI	C. P-1 ITEN	Weapon System M NOMENCLATURE AGING SENSOR SYSTE		A. DATE	Februa SUBHEAD A2	ry 2004 UT
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FISCAL YEAR (04) UT002			NAVSEA		CPFF	DRS/ CA	3/04			
D. REMARKS										

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CLASSIFICATION: UNCLASSIF	IED																							
P3A		INDIVIDUA	AL MC	DIFICA	TION																			
MODELS OF SYSTEM AFFECTED:	THER	MAL IMAGING	SENS	OR SYSTE	EM (TIS	S) 2043	TYP	E MODIFI	CATIO	ON:	N/A			-			MOD	IFICATI	ON TI	ΓLE:		N/A		
DESCRIPTION/JUSTIFICATION:																								
The Thermal Imaging Sensor System																								otic (EO)
capabilities for improvement of Integrater capabilities for improvement of Integrater capabilities.	rated	Snip Deten	se (IS	SD) Syst	em a	gainst	air Ai	nti-Snip i	/IISSIIE	detens	se and	surrace	e (min	e and s	maii t	oat att	ack) tr	ireats ir	supp	ort or	tne in	avy's A	λητι-	
DEVELOPMENT STATUS/MAJOR DEVE	LOPM	IENT MILES	STONI	ES:										_										
	FY 2	002 & Prior	F۱	<u>/ 2003</u>	FY	2004	F	Y 2005	F١	2006	FY	2007	F۱	2008	FY 2	009					-	<u>ΓC</u>		<u>TOTAL</u>
	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																								
<u>RDT&amp;E</u>		6.0																					0	6.0
<u>PROCUREMENT</u>																								
INSTALLATION KITS																							0	0.0
INSTALLATION KITS NONRECURRING	3																						0	0.0
EQUIPMENT	24	16.2																					24	16.2
EQUIPMENT NONRECURRING																							0	0.0
ENGINEEDING QUANCE OPPERS																								4.4
ENGINEERING CHANGE ORDERS						4.4																	0	4.4
DATA	1																						0	0.0
TRAINING EQUIPMENT																							0	0.0
SUPPORT EQUIPMENT																							0	0.0
OTHER (production engineering)																							0	0.0
OTHER																							0	0.0
OTHER																							0	0.0
INTERIM CONTRACTOR SUPPORT																							0	0.0
PROCUREMENT COST	24	16.2	0	0.0	0	4.4																	24	20.6
																			1				1 7	

P-1 SHOPPING LIST

CLASSIFICATION:
UNCLASSIFIED

0

2.8

INSTALL COST

TOTAL PROGRAM COST

2.8

19.0

0

0

4.4

0.0

24

CLASSIFICATION: <b>UNCLAS</b> P3A (Continued)	SIFIEL	,				INDIVIDU	JAL M	ODIFICA	TION (C	ontinued	l)													
MODELS OF SYSTEMS AFF	ECTE	D: THERN	I <u>AL IM</u> A	AGING SENS	SOR SY	STEM (TIS	S) 2043	МС	DDIFICA	TION TIT	LE:										-			
INSTALLATION INFORMATION INFORMATION OF IMPLEMENTATION OF IMPLEMEN		ALTERAT	ION II	NSTALLA	TION	TEAM (A	<u>I</u> T)																	
ADMINISTRATIVE LEADTIM CONTRACT DATES: DELIVERY DATE:	E: FY:	VAR 2005: 2006:	Mon	iths	-		_	PRODU	CTION	LEADTIM	E: .				=				_					
DELIVERY BATE.		2000.																	_					
0.1				V 0000						in Millions			1 -	.,		, 0000	1		1				-	
Cost:	Qty	ior Years \$	Qty	Y 2003 \$	Qty	Y 2004 \$	Qty	/ 2005 \$	Qty	<sup>′</sup> 2006 \$	Qty	Y 2007 \$	Qty	Y 2008 \$	Qty	<sup>′</sup> 2009 \$	Qty	\$	Qty	\$	Qty	ater \$	Qty	otal \$
PRIOR YEARS	24		Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	24	2.8
FY 2003 EQUIPMENT																							0	0.0
FY 2004 EQUIPMENT																							0	0.0
FY 2005 EQUIPMENT*																							0	0.0
FY 2006 EQUIPMENT																							0	0.0
FY 2006 EQUIPMENT																							0	0.0
FY 2007 EQUIPMENT																							0	0.0
FY 2008 EQUIPMENT																							0	0.0
FY 2009 EQUIPMENT																							0	0.0
TO COMPLETE	24	2.8																					24	2.8
		* Installa	tion fu	unding pr	ovided	d in FY05	;																	
INSTALLATION SCHEDU		SHIP AVA															- I			I I				
FY 200 & Prior	11	FY 2002 2 3	4	1 2	<u>2003</u> 3	4 1	FY 2	3 4	1	FY 2005 2 3			<u>2006</u> 3	4 1		2 <u>007</u> 3 4	1	FY 200 2 3			OTAL			
In 24 Out 24																				8	2 <sub>1</sub>			
																				_	0.4			

### **UNCLASSIFIED**

		В	UDGET ITEM JUSTIFICA	TION SHEE	ΞT			DATE:			
			P-40						FEBRU <i>A</i>	ARY 2004	
APPROPRIATION/BI	UDGET ACTIVIT	Υ				P-1 ITEM NOW	IENCLATURE/S	SUBHEAD			
OTHER PROCUE	REMENT, NA	VY BA-0	02			AN/SQC	Q-89(V) Surfa	ice ASW Cor	nbat System	/ BLI 213600	/5/ A2DB
Program Element for	Code B Items:					Other Related I	Program Eleme	nts	_		
						Surface AS	W Combat S	ystem Integr	ation/PE 020	)5620N	
	FY 2002	ID								То	
	and Prior	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST											
(In Millions)	\$852.8		\$13.7	\$15.2	\$0.0	\$0.0	\$0.0	\$0.0	\$32.9	CONT.	CONT.
SPARES COST											
(In Millions)											

#### PROGRAM OVERVIEW:

The AN/SQQ-89 is a fully integrated surface ship Undersea Warfare (USW) combat system with capability to detect, classify, localize and attack submarine targets. The AN/SQQ-89(V) is the USW Combat System for new construction DDG51 class ships, backfit on DDG51 class ships, and also backfit on CG47 class ships as part of the Cruiser Modernization program. The AN/SQQ-89(V) configuration will vary based upon ship class, system production configuration, and pre-backfit configuration of each ship. This budget supports modernization of existing AN/SQQ-89(V) systems.

The AN/SQQ-89A(V)15 backfit upgrade will capitalize on the AN/SQQ-89(V)15 forward fit investment and will integrate a new tactical towed array sensor (Multi Function Towed Array) to provide a Commercial-Off-The-Shelf (COTS) based USW combat system with the capability for mid-frequency bistatic and multi-static sonar operations. The AN/SQQ-89A(V)15 features a mid frequency bistatic hull/towed Sonar Echo Tracker Classifier, hull/towed Sonar with Acoustic Intercept fused data for improved torpedo defense, passive towed array processing, common Sub/Surface sensor performance and prediction, common NAVAIR/Surface LAMPS processing, portable software, and integrated supportability and on-line training.

FY 2004 budget includes Congressional Add for 'AN/SQQ-89 Modernization' under DB008. Funds will be used for AN/SQQ-89(V) Build 2 upgrades under the AN/SQQ-89(V) modernization program. Specifically, funds will be used to procure, integrate and field a system for land based testing and a system on a DDG 51 class ship for at-sea demonstration, testing, fleet evaluation and assessment.

FY 2004 budget includes Congressional Add for 'Surface Ship Anti-Submarine Warfare Improvements (only for procurement of surface ship Multi-Purpose Processor (MPP) Small Business Innovative Research (SBIR) Phase III improvements)' under DB010. Funds will be used to accelerate the fielding of mature ASW-related warfighting enhancements on ships currently configured with the AN/SQQ 89(V)6 USW combat system. Each installation will include state-of-the-art ASW improvements hosted on modern COTS hardware.

FMP Installation: Funding is for the installation of equipment by "K" ALTs through shippyards and/or Alteration Installation Teams (AIT).

P-1 SHOPPING LIST

ITEM NO. 32 PAGE NO.

CLASSIFICATION:

# CLASSIFICATION: UNCLASSIFIED

ITEM NO. 32

	WEAPONS SYSTEM		ALYSIS			Weapon Sys	stem							DATE: FEBRUA	RY 2004
	RIATION/BUDGET ACTIVITY rocurement, Navy / BA-02	<u> </u>							RE/SUBHEAD		stem/RLI 21	13600/5/A2D	nR		
			TOTAL COS	T IN THOUS	ANDS OF DO		AII/OQQ-	os(v) Suria	ice AOW CC	niibat Oys	Stell/DLI Z	13000/3/AZL	<i>,</i>		
COST	ELEMENT OF COST	ID Code	FY 2002 and Prior					FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
DB008	AN/SQQ-89 Modernization (FY 2004 Congressional Add)	А										10,936			
DB010	Surface Ship ASW Improvements (FY 2004 Congressional Add)	А										4,250			
DB600	AN/SQQ-89A(V)15 Trainer System	А					1		7,119						
DB700	AN/SQQ-89A(V)15 Shore Site System Components	А							619						
DB830	Production Engineering								1,738						
DB900	Consulting Services								763						
)B984	Systems Technical Support								1,733						
)B006	INSTALLATION FOR DB300 (CG47 Class System Components)								510						
DB006	INSTALLATION FOR DB400 (DDG51 Class System Components)								1,197						
	2446, JUN 86		0 OPPING LIST			0			13,679			15,186 CLASSIFICA			

PAGE NO. 2

**UNCLASSIFIED** 

BUDGET PROCUREM	ENT HISTO	ORY AND P	LANNING EXHIBI	Г (Р-5А)		Weapon System		A. DATE		
								F	EBRUARY 2	2004
B. APPROPRIATION/BUDGET Other Procurement, N		2			C. P-1 ITEM NO				SUBHEAD	
					AN/SQQ-89	(V) Surface ASW Comb	oat System	1	A2	2DB
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2003 DB600/AN/SQQ-89A(V)15	1	7,119	NAVSEA	September 01	Option FP	Lockheed Martin, NY	Dec 02	May 04	Yes	
D. DEMARKO										
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST PAGE NO. Classification:

ITEM NO. 32 3 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED FEBRUARY 2004

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: DDG51 Class Ships/ DB008 TYPE MODIFICATION: Added Capability MODIFICATION TITLE: AN/SQQ-89 Modernization

#### DESCRIPTION/JUSTIFICATION:

FY 2004 budget included Congressional Add for 'AN/SQQ-89 Modernization' under DB008. Funds will be used for AN/SQQ-89(V) Build 2 upgrades under the AN/SQQ-89(V) modernization program. Specifically, funds will be used to procure, integrate and field a system for land based testing and a system on a DDG 51 class ship for at-sea demonstration, testing, fleet evaluation and assessment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 2002	2 & Prior	<u> </u>	Y 2003		2004		2005	<u>F</u>	2006		2007		2008		2009		omplete	<u>TO</u>	TAL
	QTY	\$	 QT	Y \$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				0.0
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT						7.0														7.0
EQUIPMENT NONRECURRING						2.8														2.8
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER - ECPs																				0.0
OTHER - ENGINEERING SUPPORT						1.1														1.1
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST																				0.0
TOTAL PROCUREMENT		0.0		0.0		10.9		0.0		0.0		0.0		0.0		0.0		0.0		10.9

ITEM

PAGE 4 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED FEBRUARY 2004

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: DDG51 Class Ships/ DB010 TYPE MODIFICATION: Added Capability MODIFICATION TITLE: Surface Ship ASW Improvements

#### DESCRIPTION/JUSTIFICATION:

FY 2004 budget included Congressional Add for 'Surface Ship Anti-Submarine Warfare Improvements (only for procurement of surface ship MPP SBIR Phase III improvements)' under DB010. Funds will be used to accelerate the fielding of mature ASW-related warfighting enhancements on ships currently configured with the AN/SQQ-89(V)6 USW combat system. Each installation will include state-of-the-art ASW improvements hosted on modern COTS hardware.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 2002	& Prior	FY	2003	FY	2004		2005	<u>F</u>	2006	<u>F</u>	2007	<u>FY</u>	2008	<u>FY</u>	2009	To C	omplete	TO	TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				0.0
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT						3.7														3.7
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER - ECPs																				0.0
OTHER - ENGINEERING SUPPORT						0.6														0.6
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST																				0.0
TOTAL PROCUREMENT		0.0		0.0		4.3		0.0		0.0		0.0		0.0		0.0		0.0		4.3

ITEM

PAGE 5 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED **FEBRUARY 2004** 

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: Trainers (DB600) & Shore Sites (DB700) TYPE MODIFICATION: Added Capability MODIFICATION TITLE: AN/SQQ-89 Surf ASW Combat Sys

DESCRIPTION/JUSTIFICATION:

Procurement of AN/SQQ-89 Surface ASW Combat System equipment at training centers and shore sites to match upgrades to current ship systems.

DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	STONES	S: <u>A</u>	AN/SQQ	2-89A	(V)15 Pı	re-Proc	duction	Protot	ype ord	ered i	n FY 200	3 and	to be i	nstalle	d 3Q04	(RDT	&E PE 0	205620	<u>(N)</u>		
	<u>FY 200</u> QTY	2 & Prior \$				<u>2003</u>	<u>FY</u> QTY	<u>/ 2004</u> \$		<u>2005</u>		<u>/ 2006</u> \$		<u>/ 2007</u> \$	<u>FY</u> QTY	2008 \$		<u>2009</u>	To Co QTY	mplete \$	<u>TO</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT	Var	17.6			1	7.1																24.7
SUPPORT EQUIPMENT	Var	43.1			Var	0.6																43.7
OTHER - ECPs																						0.0
OTHER - ENGR SUPT (DB830/900/984)		42.1				1.4																43.5
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST																						0.0
TOTAL PROCUREMENT		102.8				9.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		111.9

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CLASSIFICATION: UNCLASSIFIED

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### **UNCLASSIFIED**

	BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:			
		P-40							February 20	04
SUDGET ACTIVIT	Υ				P-1 ITEM NOM	MENCLATURE	•			
REMENT, NA	/Y/BA:2				214700/SSN	<b>ACOUSTIC</b>	S			
r Code B Items:					Other Related	Program Eleme	nts			
Prior	ID								То	
Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Complete	Total
N/A	В									0
		\$229.6	\$266.4	\$225.0	\$229.0	\$265.4	\$296.5	\$289.0		\$1,918.1
		\$13.8	\$17.7	\$15.6	\$17.9	\$18.3	\$26.9	\$5.3		118.4
	Prior Years	RUDGET ACTIVITY REMENT, NAVY/BA:2 r Code B Items:  Prior ID Years Code	P-40 BUDGET ACTIVITY REMENT, NAVY/BA:2 r Code B Items:  Prior ID Years Code FY 2003  N/A B	P-40 SUDGET ACTIVITY REMENT, NAVY/BA:2 r Code B Items:  Prior ID Years Code FY 2003 FY 2004  N/A B \$229.6 \$266.4	Prior	P-40  BUDGET ACTIVITY  REMENT, NAVY/BA:2  Code B Items:  Prior ID Years Code FY 2003 FY 2004 FY 2005 FY 2006  N/A B  \$229.6 \$266.4 \$225.0 \$229.0	P-40  BUDGET ACTIVITY  REMENT, NAVY/BA:2  Code B Items:  Prior ID Years Code FY 2003 FY 2004 FY 2005 FY 2006 FY 2007  N/A B  \$229.6 \$266.4 \$225.0 \$229.0 \$265.4	P-40  BUDGET ACTIVITY  REMENT, NAVY/BA:2  Code B Items:  Prior ID Years Code FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008  N/A B  \$229.6 \$266.4 \$225.0 \$229.0 \$265.4 \$296.5	P-40  BUDGET ACTIVITY  REMENT, NAVY/BA:2  Code B Items:  Prior ID Years Code FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY2009  N/A B  \$229.6 \$266.4 \$225.0 \$229.0 \$265.4 \$296.5 \$289.0	P-40   P-1   ITEM NOMENCLATURE   P-1   ITE

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program procures submarine systems and equipment for installation on all classes of submarines to maintain clear acoustical, tactical and operational superiority over submarine and surface combatants in all scenarios through detection, classification, localization and contact following. All future acoustic upgrades of Acoustic-Rapid COTS Insertion (A-RCI) equipment are incorporated into this budget item. Future procurements, detailed below, are focused on supporting Littoral Warfare, Regional Sea Denial, Battle Group Support, Diesel Submarine Detection, Surveillance, and Peacetime Engagement. Acoustics Rapid COTS Insertion (A-RCI) is a multi-phased, evolutionary development effort geared toward addressing Acoustic Superiority issues through the rapid introduction of interim products applicable to SSN 688, 688I Flight, SSN21, SSGN and SSBN 726 Class Submarines. A-RCI Phase II provides towed array processing improvements; A-RCI Phase III provides spherical array processing improvements. The AN/BSY-1 High Frequency Upgrade is a stand-alone program which is provided as A-RCI Phase IV for SSN 688I and Seawolf Class only. As part of CNO N772's plan to maintain acoustic superiority for In Service Submarines a joint cooperative effort with NAVSEA (SEA 93, ASTO) to deliver annual Advanced Processing Builds (APBs). The capabilities in the APBs will be integrated as part of A-RCI certified systems. This effort, known as the N772 Business Plan funds the APB integration efforts with the Multi-Purpose Processor as well as the AN/BQQ-10 Sonar system beginning in FY02. This budget submit also reflects the procurement of Technology Insertion kits, Submarine Tactical Decision Aids (STDA), Total Ship Monitoring System (TSMS), Active Intercept and Ranging (Al&R), Precision Bottom Mapping, Acoustic Intelligence (ACINT 21), and AN/BQS-15 upgrades to be installed with A-RCI systems/upgrades.

Towed system's procurements include Towed Array Refurbishment & Upgrades, TB-16, TB-16 Next Generation and OA-9070 B kits and upgrades. Towed Systems procurements provide upgrades/support for TB-16 Series Towed Arrays, TB-23 Towed Arrays, TB-29 Series Towed Arrays, OK-276 Series Towed Array Handlers, OK-634 Towed Array Handler and OA-9070 Series Handlers installed on SSN688, SSN 688I, SSN21 and SSBN726 Class Submarines. These upgrades provide increased sensor capability to maintain acoustic superiority and reliability improvements to increase the service life, reduce failures, and increase the inventory of arrays and handlers available for fleet use.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 33 PAGE NO. 1

### CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:	
P-40	February 2004	
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA: 2	214700/SSN ACOUSTICS	

#### **SA101 ACOUSTICS UPGRADES:**

Procures A-RCI TA, SA, HA, and HF Upgrade Kits, Precision Bottom Mapping Kits, AN/BQS-15 High Frequency Upgrades, Acoustic Intercept, TSMS and ACINT-21 Lite and Heavy. This line also supports the refurbishment and installation of the upgrades.

#### **SA102 TOWED SYSTEMS:**

Procures TB-29 A Towed Arrays, Fiber Optic Thinline Systems, TB-16 Fatline Replacement, Advanced Hull Sensors, OA-9070B Towed Array Handler Kits, and refurbishment/upgrade material to support reliability improvements to TB-16, TB-23, TB-29 Towed Arrays and Towed Array Handling Systems. Handling System reliability improvements include: improved cables in the outboard systems, EMI improvements, roller boxes, improved hydraulic control and capstans. Towed Array reliability improvements include: improved internal connectors, hydrophones, towcables and Vibration Isolation Modules (VIMs). Towed Array improvements to increase performance include: Light Weight Tow Cables for the TB-29 A Towed Arrays and Wideband OMNI capability in TB-16 Arrays.

#### **SA104 SSGN MODERIZATION:**

Funds provided to procure A-RCI hardware for combat systems on SSGN conversions.

#### **SA105 SONAR SUPPORT EQUIPMENT**

Funds provided to procure BQN-17 and associated equipment.

#### **SA201 BLOCK CHANGES:**

Minor ECP's and hardware changes affecting all classes of submarines are procured through this line. Funding contained In this line will be used to support non-recurring first article test efforts associated with the changing COTS environment as well as Reliability, Maintainability and Availability modifications requested by the Fleet. This line also supports the procurement of hardware necessary to implement the ECP's into the System or end item being procured.

#### SA202 PRODUCTION/ENGINEERING SUPPORT:

Funding supports the procurement of Acoustics Upgrades equipment and Towed System hardware.

#### **SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT:**

Funding procures various towed array test equipment and handling system/stowage tube inspection test equipment.

#### **SA302 OP TRAINER UPGRADES:**

Funding procures hardware upgrades and production engineering for Acoustic Upgrades operational trainer sites.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 33 PAGE NO. 2

# CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY/BA: 2	214700/SSN ACOUSTICS

#### **SA303 COTS SUPPORTABILITY UPGRADES:**

Provides for Technology Refresh/Insertion for A-RCI kits. Tech Refresh provides for Software and Hardware updates to accommodate shifts in technology to the execution procurement years' "current state-of-the-practice" hardware. A-RCI has already undergone three technology insertion phases to accommodate integrating Advanced Processing Builds (APBs). Updates are necessary for signal and display processing hardware as APBs are introduced or as commercial support for the hardware is phased out. Tech Insertion procures the hardware necessary to upgrade and backfit the A-RCI kits. When A-RCI systems are being upgraded to subsequent phases of A-RCI (e.g. from Phase II to Phase IV), upgrades to the Phase II signal processing and display hardware will be procured from this line to accommodate common technology consistent with the APB being implemented in the year of introduction. In future years, requirements will be included to fund complete system technology insertion as the COTS hardware becomes unsupportable.

#### **SA401 INITIAL TRAINING:**

Provides for initial training curriculum development, training management materials, exercise control group development, pilot services and services to the Fleet.

#### SA500 AN/BQG-5 WIDE APERTURE ARRAY (WAA):

Funding supports Wide Aperture Array Shore Spares for both AN/BQG-5 and AN/BSY-2 systems. Funding also supports engineering changes and support unique to the AN/BQG-5 systems.

#### **SA501 AN/BSY-2:**

Funding supports engineering changes and upgrade and an End of Life Parts program. This funding also supports procurement, installation and test of ARCI-HF Kits, ARCI SA Kits, ARCI (V)5 Kits.

#### SA502 NON-PROPULSION ELECTRONIC SYSTEMS MODERIZATION:

Funds provide for Subsystem C4I connectivity and interoperability in support of CNO IT21 initiatives. Supports rapid data/information transmitial on/off board the submarine.

#### SA5IN EQUIPMENT INSTALLATION:

Funds actual hardware installation during shipyard and pierside availabilities.

#### SA900 CONSULTING SERVICES:

Includes specification validation, contract deliverable monitoring, prime contractor monitoring for cost, schedule and performance slips, ILS planning and coordination of GFI. Additional support will include production planning, business case analysis, technical refresh and insertion planning and market analysis to review implementation strategies for procurement of current year "state of the practice" hardware in Acoustics programs. Consulting services will also provide production monitoring, installation planning and coordination support.

P-1 SHOPPING LIST

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CLASSIFICATION:

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DD Form 2454, JUN 86

# **UNCLASSIFIED**

	WEAPONS SYSTEM COST P-5	ANALY	/SIS			Weapon Sys	stem							DATE: <b>Februar</b>	y 2004
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy COMMUNICATIONS AND ELECTRONICS EQI	UIPME	NT			ID Code <b>B</b>		IOMENCLATUR							•
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS	•								
COST	ELEMENT OF COST	ID	Prior				I	FY 2003			FY 2004			FY 2005	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SPONSOR: N77														
SA101	ACOUSTICS UPGRADES								\$98,769			\$98,895			\$60,30
l	INSTALL SUPPORT	Α							3,727			\$4,200			
	BQS-15 EC-19 (GUAM Hulls)	Α					3	2,850	8,550						
	HIGH FREQUENCY ARRAY WINDOWS (HF)	В					12	208	2,500						
	A-RCI 688 PHASE II KITS (TA RCI KITS)	В											1	3,200	3,20
	A-RCI 688 PHASE II-III KITS (TA - SA RCI KITS)	В					4	7,000	28,000	3	7,133	21,400	1	7,300	7,30
	A-RCI 688 PHASE III KITS (SA RCI KITS)	В					2	9,600	19,200	2	9,792	19,584			
	A-RCI 688I PHASE II-IV KITS (TA - SA/HF RCI KITS)	В					3	7,800	23,400	4	7,950	31,800	4	8,125	32,50
	A-RCI 688I PHASE IV KITS (SA-HF RCI KITS)	В								1	10,812	10,812			
	A-RCI SSBN PHASE II KITS (TA RCI KITS)	В								1	3,099	3,099	1	3,200	3,20
	TOTAL SHIP MONITORING SYSTEM KITS	Α					9	799	7,191	5	800	4,000	9	811	7,30
	ACTIVE INTERCEPT & RANGING KITS (AI&R)	Α					9	689	6,201	5	800	4,000	9	667	6,00
	AI&R SENSORS (BACKFIT APPLICATIONS)	Α											2	400	80
SA5IN	ACOUSTICS UPGRADES INSTALLATION								\$18,280			\$39,026			\$31,400
SA102	TOWED SYSTEMS								\$35,278			\$52,409			\$33,664
	TOWED ARRAY REFURBISHMENT & UPGRADE	Α							18,317			22,476			23,77
	TOWED ARRAY HANDLER SYSTEM UPGRADE	Α							4,848			7,065			4,38
	OA-9070 B KITS	Α					4	439	2,193	5	483	2,413	1	510	51
	TOWED ARRAY TB-29A	В					3	2,907	8,720	4	2,500	10,000			
	TB-16 ARRAY	Α					2	600	1,200	17	615	10,455			
	TB-16 NEXT GENERATION	Α											7	680	4,76
	TB-16 NEXT GENERATION INTERFACE HWD	Α											4	60	24
SA5IN	TOWED SYSTEM INSTALLATION								\$9,613			\$15,879			\$4,73
	2446 IIIN 86		OPPING LIST									CI ASSIFICAT			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 33 PAGE NO. 4

**UNCLASSIFIED** 

	WEAPONS SYSTEM CO P-5	ST ANAL	YSIS			Weapon Sy	/stem							DATE: Februar	v 2004
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy COMMUNICATIONS AND ELECTRONICS	EQUIPM	ENT			ID Code		IOMENCLATU							, =00 :
				T IN THOUS	SANDS OF DO	LLARS	II.								
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
SA104	SSGN MODERIZATION								\$0			\$1,000			\$31,000
	SSGN CONVERSION	В										\$1,000			
	SSGN PHASE IV KITS	В											2	15,500	31,000
SA5IN	SSGN MODERNIZATION INSTALLATION								\$0			\$1,000			\$500
SA105	SONAR SUPPORT EQUIPMENT								\$0			\$500			\$4,500
	BQN-17	Α										500			1,400
	BQS-15A EC-19 (P)	Α													100
	BQS-15A EC-20 (P)	Α											4	750	3,000
SA5IN	SONAR SUPT EQUIP INSTALLATION								\$0			\$0			\$500
SA201	BLOCK CHANGES								\$3,388			\$3,488			\$3,573
	ACOUSTICS (AN/BQQ-5/AN/BSY-1)								1,701			2,050			\$2,117
	SSEP											200			200
	ACOUSTIC INTERCEPT FIRST ARTICLE								472						
	TOWED SYSTEMS ECP'S								1,215			1,238			1,256
SA202	PROD/ENG'G SUPPT								\$6,028			\$5,796			\$5,764
	ACOUSTICS (AN/BQQ-5/AN/BSY-1)								2,741			2,695			2,446
	TOWED ARRAYS/HANDLING EQUIPMENT								3,287			3,101			3,318
DD EODM	2446, JUN 86	D 1 CH	OPPING LIST									CLASSIFICA	TION		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:
ITEM NO. 33 PAGE NO. 5

# **UNCLASSIFIED**

	WEAPONS SYSTEM CO P-5	ST ANAL	.YSIS			Weapon Sy	stem							DATE: February 2004	
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy OMMUNICATIONS AND ELECTRONICS	EQUIPM	ENT			ID Code			IRE/SUBHEAD STICS/H2SA				l		
				T IN THOUS	SANDS OF DO	LLARS									
COST	ELEMENT OF COST	ID	Prior					FY 2003			FY 2004			FY 2005	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Co
SA203	TOWED SYSTEMS UNIQUE TEST EQUIPMENT								\$3,193			\$2,713			\$1,6
SA302	OP TRAINER GFE								\$1,800			\$1,700			\$1,7
SA303	COTS SUPPORTABILITY UPGRADES								\$35,335			\$36,691			\$28,5
	COTS TECH INSERTION								22,355			21,591			21,
	SONAR TACTICAL DECISION AIDS (STDA)								10,280			12,300			5,
	AEMP								1,200			1,500			2,
	COTS TECH REFRESH								1,500			1,300			
SA401	INITIAL TRAINING								\$1,529			\$1,599			\$1,
	ACOUSTICS								1,100			1,119			1
	TOWED ARRAY HANDLING EQUIPMENT								429			480			
SA500	AN/BQG-5 WAA								\$0			\$0			
	ENGINEERING CHANGES														
SA501	AN/BSY-2								\$11,288			\$0			\$10,1
	END OF LIFE PARTS (EOL)								445						
	ENGINEERING CHANGES/UPGRADES								445						
	INSTALLATION & TEST SPT/INTEG								698						
	A-RCI PHASE IV KIT						1	9,700	9,700				1	10,100	\$10,
SA51N	AN/BSY-2 EQUIPMENT INSTALLATION								\$2,500			\$3,100			\$3,1
SA900	CONSULTING SERVICES								\$2,624			\$2,635			\$2,3
	ACOUSTICS								1,622			1,639			1,
	TOWED SYSTEMS								1,002			996			
									229,625			266,431			225

DD FORM 2446, JUN 86 P-1 SHOPPING LIST

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CLASSIFICATION:

# **UNCLASSIFIED**

SUDGET PROCUREMENT HISTORY AND	PLANNING	EXHIBIT (	(P-5A)			Weapon System		A. DATE		
									February 2	2004
. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NON	MENCLATURE N ACOUSTICS			SUBHEAD	:SA
Other Procurement, Navy BA-2: COMMUNICATIONS AND ELEC	TRONICS	EQUIPM	ENT		214700/331	1 ACOUSTICS			n2	SA
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 2003</u>										
A101 - A-RCI TA-SA/HF Upgrade (688I) A101 - A-RCI SA (688) A101 - A-RCI TA-SA Upgrades (688) A101 - ACOUSTIC HF WINDOWS A101 - TSMS KITS A101 - BQS 15 EC-19 A101 - ACTIVE INTERCEPT RANGING KITS A102 - TOWED ARRAY TB-29 A A102 - OA-9070 B Kits A102 - TB-16 ARRAY	3 2 4 12 9 3 9 3 5 2	\$7,800 \$9,600 \$7,000 \$208 \$799 \$2,850 \$689 \$2,907 \$439 \$600 \$9,700	NAVSEA NAVSEA NAVSEA NUWC, Newport NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA NUWC, Newport NAVSEA NAVSEA		SS/CPIF/Opt SS/CPIF/Opt SS/CPIF/Opt RFP SS/CPIF SS/FFP C/CPIF C/CPFF/Opt C/FFP SS/CPIF SS/FP/OPT	Lockheed Martin, VA Lockheed Martin, VA Lockheed Martin, VA NUWC, Newport DSR,VA. ARL/UT PROGENCY Lockheed Martin, VA NUWC, Newport CSC Lockheed Martin, VA	3/03 3/03 3/03 1/03 3/03 2/03 3/03 2/03 2/03 8/03 2/03	3/04 3/04 3/04 1/04 3/04 2/04 3/04 8/04 10/03 8/04 2/04	YES	
FY 2004 A101 - A-RCI TA TO SA/HF Upgrade (688I) A101 - A-RCI SA/HF Kits(688I) A101 - A-RCI SA (688) A101 - A-RCI TA-SA Upgrades (688) A101 - ACINT-21 KITS LITE A101 - TSMS KITS A101 - ACTIVE INTERCEPT RANGING KITS A101 - SSBN A-RCI PH II KITS A102 - TOWED ARRAY TB-29A A102 - OA-9070B KITS A102 - TB-16 ARRAY	4 1 2 3 4 5 5 1 4 5 17	\$7,950 \$10,812 \$9,792 \$7,133 \$1,672 \$800 \$800 \$3,099 \$2,500 \$483 \$615	NAVSEA		SS/CPIF/Opt SS/CPIF/Opt SS/CPIF/Opt SS/CPIF/Opt SS/CPIF C/CPIF SS/CPIF SS/FFP C/FFP/Opt SS/CPIF/Opt	Lockheed Martin, VA Lockheed Martin, VA Lockheed Martin, VA Lockheed Martin, VA DSR, VA DSR, VA PROGENCY Lockheed Martin, VA Lockheed Martin, VA NUWC, Newport CSC	12/03 12/03 12/03 12/03 12/03 12/03 304 12/03 5/04 1/04 2/04	3/05 3/05 3/05 3/05 3/05 3/05 3/05 3/05	YES	

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 33 Classification:

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# **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PL	ANNING E	XHIBIT (P	-5A)			Weapon System		A. DATE		
B. APPROPRIATION/BUDGET ACTIVITY  Other Procurement, Navy  BA-2: COMMUNICATIONS AND ELECTI	RONICS E	OUIPME	NT		C. P-1 ITEM NON 214700/SSI	L MENCLATURE N ACOUSTICS			February 2 SUBHEAD H2	9004 SA
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISION AVAILABL
<u>FY 2005</u>										
SA101 - A-RCI 688 Phase II KITS (TA RCI) SA101 - A-RCI TA TO SA/HF UPGR. KITS (688I) SA101 - TSMS KITS SA101 - ACTIVE INTERCEPT RANGING KITS SA101 - A-RCI TA-SA Upgrades (688) SA101 - SSBN A-RCI PH II KITS SA101 - ACTIVE INTERCEPT RANGING KITS SA101 - AI&R SENSORS (BACKFIT) SA102 - OA-9070B KITS SA102 - TB-16 ARRAY NEXT GENERATION SA102 - TB-16 INTERFACE HARDWARE SA104 - SSGN CONVERSION SA105 - BQS-15A EC-20 (P) SA501 - ARCI PHASE IV KITS	1 4 9 10 1 1 9 2 1 7 4 2 4 1	\$3,200 \$8,125 \$811 \$660 \$7,300 \$3,200 \$667 \$400 \$510 \$680 \$60 \$15,500 \$750 \$10,100	NAVSEA		SS/CPIF SS/CPIF SS/CPIF C/CPIF SS/CPIF/Opt SS/CPIF CPIF/Opt C/FFP C/FFP SS/CPIF TBD SS/CPIF	Lockheed Martin, VA Lockheed Martin, VA DSR,VA. PROGENCY Lockheed Martin, VA Lockheed Martin, VA PROGENCY PROGENCY NUWC, Newport TBD TBD Lockheed Martin, VA TBD Lockheed Martin, VA	3/05 3/05 3/05 3/05 3/05 3/05 3/05 2/05 2/05 2/05 3/05 3/05 3/05	3/06 3/06 3/06 3/06 3/06 3/06 3/06 3/06	YES YES YES YES YES YES YES YES NO NO YES NO YES	

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 33 Classification:

PAGE NO. 8

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:		15 EC-19 KI	TS		TYP	E MODIF	FICAT	ION:	SHIP	ALT		_			MOE	DIFICATI	ON TI	TLE:	SSN	ACOUST	CS	
DESCRIPTION/JUSTIFICATION:		(SA101)																				
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	NT MILES	ΓONES	:								-										
	<u>F`</u> QTY	Y 2002 & P \$	rior QTY	\$	<u>F)</u> QTY	<u>/ 2003</u> \$	<u>F\</u> QTY	<u>2004</u>	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F)</u> QTY	<u>/ 2006</u> \$	<u>F`</u> QTY	<u>Y 2007</u> \$	<u>F\</u> QTY	<u>/ 2008</u> \$	<u>F)</u> QTY	<u>2009</u>	QTY	<u>TC</u> *	<u>TC</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)		·		·								,						·				
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS	1	2.000			3	8.550															4	10.550
INSTALLATION KITS - UNIT COST		2.000				2.850																
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING				_		_								_								0.000
ENGINEERING CHANGE ORDERS				•																		0.000

2 1.100

8.550

1

0.500

DATA

OTHER

OTHER

OTHER

INSTALL COST

TOTAL PROCUREMENT

TRAINING EQUIPMENT

SUPPORT EQUIPMENT

INTERIM CONTRACTOR SUPPORT

0.500

2.500

0.000

0.000

0.000

0.000

0.000

0.000

0.000

2.100

CLASSIFICA		LASS	IFIED																								
P3A (Continue	ed)				IND	IVIDUA	AL MOI	DIFICATIO	N (Cor	ntinued)																	
MODELS OF	SYSTEMS	AFFE	CTE <u>D:</u> BQ	S-15 E	C-19	KITS		MODI	FICAT	ION TITLE:		SSN	N ACOL	JSTIC	S												
INSTALLATION METHOD OF				ALT																							
ADMINISTRA							_	PRODUCT	ION L	EADTIME:			12	2 Mon	iths												
CONTRACT	DATES:	FY 2	2002:	3/20	002			FY 2003:		N/A						FY 20	004:	N/A				F	Y 200	5:	N/A		
DELIVERY D	ATE:	FY 2	2002:	3/20	003			FY 2003:		N/A						FY 20	004:	N/A				F	Y 200	5:	N/A		
											(	\$ in M	lillions)														
Cos	st:	Prior '						Y 2003		FY 2004		FY 20			FY 20			Y 2007		FY 2008			2009		Comple		Total
		Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$	Q	ty	\$	Qt	y \$	Qty	\$
PRIOR YEA	.RS																									0	0.000
FY 2002 EQ	UIPMENT	1	0.50	00																						0	0.00
FY 2003 EQ	UIPMENT								2	1.10	00 1		0.500	)												3	1.60
FY 2004 EQ	UIPMENT																									0	0.00
FY 2005 EQ	UIPMENT																									0	0.0
FY 2006 EQ	UIPMENT																									0	0.0
FY 2007 EQ	UIPMENT																									0	0.00
FY 2008 EQ	UIPMENT																									0	0.0
FY 2009 EQ	UIPMENT																									0	0.0
TO COMPLE	ETE																										
INSTALLA	TION SCH	DUL	Ξ:						_																		
	FY 2002		FY 200	<u>)3</u>			FY 20	004		FY 2005			FY 2	2006			FY 2	007		FY 200	8		<u>F</u>	Y 200	9	<u>TC</u>	
	& Prior	1	2 3	4	-	1		3 4	1	2 3	4	1	2	3	4	1	2	3 4	1	2 3		4		2 3			TOTAL
In	1	0	0 0	0		0	1	1 1	0	0 0	0	0	0	0	0	0	0	0 0	0	0 0		· 11		0 (		0	4
Out	1	0	0 0	0		0	1	1 1	0	0 0	0	0	0	0	0	0	0	0 0	0	0 0	) (	0	0 (	0 0	0	0	4
																							P-	-3A			
Į								ITE	EM 33		PAGE	10								CL	ASSIF	-ICAT			ASSIF	IED	

P3A	INDIVIDUAL MODIFICATION			
MODELS OF SYSTEM AFFECTED:	HIGH FREQUENCY ARRAY WIND TYPE MODIFICATION:	ORDALTS	MODIFICATION TITLE:	SSN ACOUSTICS

#### DESCRIPTION/JUSTIFICATION:

The installation funding cited on this P3A is included in BLI 214700 not 214705; REQUIRED UPGRADE WHEN ADDING PHASE IV HIGH FREQUENCY ARRAY CAPABILITY

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	<u>F`</u>	Y 2002 & Pri	<u>ior</u>	<u>FY</u>	2003	<u>F</u>	2004	FY	2005		2006	FY	2007	<u>FY</u>	2008		2009		<u>TC</u>	<u>TO</u>	<u>TAL</u>
	QTY	\$	QTY	\$ QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					0.000
<u>PROCUREMENT</u>																					
INSTALLATION KITS	13	2.500		12	2.500															25	5.000
INSTALLATION KITS - UNIT COST		0.192			0.208																
INSTALLATION KITS NONRECURRING																					0.000
EQUIPMENT																					0.000
EQUIPMENT NONRECURRING																					0.000
ENGINEERING CHANGE ORDERS																					0.000
DATA																					0.000
TRAINING EQUIPMENT																					0.000
SUPPORT EQUIPMENT																					0.000
OTHER																					0.000
OTHER																					0.000
OTHER																					0.000
INTERIM CONTRACTOR SUPPORT																					0.000
INSTALL COST				13	2.886	12	2.664													25	5.550
TOTAL PROCUREMENT		2.500			5.386		2.664			05.44										ON: LING	10.550

CLASSIFICATION: UNC	CLASS	SIFIED																										
P3A (Continued)				II	NDIVIDU	AL MC	DIFICATIO	N (Co	ntinue	ed)																		
MODELS OF SYSTEMS	AFFE	CTE <u>D</u>	: HFA	RRAY \	WINDOW	S	MOD	IFICAT	ION T	TTLE:		SSN	ACOL	JSTIC	S										-			
INSTALLATION INFORMETHOD OF IMPLEME			ORDAL	.TS																								
ADMINISTRATIVE LEAD						_	PRODUC <sup>*</sup>	TION L	.EADT	IME:			12	2 Mor	iths													
CONTRACT DATES:	FY 2	2002:		3/200	2		FY 2003:		N/A		-					FY 20	04:	N/A					FY 2	005:		N/A		
DELIVERY DATE:	FY 2	2002:		3/200	13		FY 2003:		N/A							FY 20	04:	N/A					FY 2	005:		N/A		
											(\$	in Mi	llions)															
Cost:	Prior \	Years					FY 2003		FY 20	004		FY 20	05		FY 20	06	F	Y 2007		Y 2008	3	F	Y 200	9	To C	omplet	е	Total
	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$		Qty	\$	3	Qty	\$	Qty	\$
PRIOR YEARS																											0	0.000
FY 2002 EQUIPMENT						13	2.886	3																			13	2.886
FY 2003 EQUIPMENT								12		2.664	1																12	2.664
FY 2004 EQUIPMENT																											0	0.000
FY 2005 EQUIPMENT																											0	0.0
FY 2006 EQUIPMENT																											0	0.0
FY 2007 EQUIPMENT																											0	0.000
FY 2008 EQUIPMENT																											0	0.0
FY 2009 EQUIPMENT																											0	0.0
TO COMPLETE																												
INSTALLATION SCH	EDULE	≣:																	_									
FY 2002		<u>F</u>	Y 2003			FY 2	2004		FY	2005			FY 2	2006			FY 2	007		FY 2	800			FY 2	2009		<u>TC</u>	
& Prior	1	2	3	4	1	2		1	2	3	4	1_	2	3	4	1	_ 2	3 4	1	2	3	4	1	2	3_	4		TOTAL
In 0	2	4	4	3	2	4	4 2	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	25
Out 0	2	4	4	3	2	4	4 2	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	25
																								P-3A				

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CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION:	UNCLASSIFIED	)

P3A	INDIVIDUAL MODIFIC					
MODELS OF SYSTEM AFFECTED:	A-RCI 688 PHASE II KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS	

DESCRIPTION/JUSTIFICATION:

SSN688 A-RCI TOWED ARRAY KITS. PROVIDES TB-29 ARRAY CAPABILITY AND IMPROVED DETECTION

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	<u>F</u>	Y 2002 & Pri	FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009			<u>TC</u> \$	<u>TO</u>	<u>TAL</u>	
	QTY	\$	QTY	\$ QTY	\$		\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																				0	0.000
<u>PROCUREMENT</u>																					
INSTALLATION KITS	22	56.144						1	3.200											23	59.344
INSTALLATION KITS - UNIT COST		2.552							3.200												
INSTALLATION KITS NONRECURRING																					0.000
EQUIPMENT																					0.000
EQUIPMENT NONRECURRING																					0.000
ENGINEERING CHANGE ORDERS																					0.000
DATA																					0.000
TRAINING EQUIPMENT	1	2.282																		1	2.282
SUPPORT EQUIPMENT																					0.000
OTHER																					0.000
OTHER																					0.000
OTHER																					0.000
INTERIM CONTRACTOR SUPPORT																					0.000
INSTALL COST				2	3.000					1	1.500									3	4.500
TOTAL PROCUREMENT		58.426			3.000		ITEM		3.200	OE 12	1.500										66.126

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P3A (Continued)	CLAS	SIFIED		INDI	VIDUA	L MO	DIFICATIO	N (Coi	ntinued)																	
MODELS OF SYSTEMS AFFECTED: A-RCI 688 PHASE II KITS MODIFICATION TITLE:										<u>:</u> :	SSI	N ACOL	JSTICS	S												
INSTALLATION INFOR	MATIC	N:					_																_			
METHOD OF IMPLEME	ENTAT	ION: SHIP	ALT																							
ADMINISTRATIVE LEA							PRODUCT	ION L	EADTIME:	:		12	2 Mon	ths		_										
CONTRACT DATES:		FY 2002: 3/2002					FY 2003: FY 2003:		FY 2004: N/A									FY 2005: N/A								
DELIVERY DATE:	FY	2002:	3/20	003				FY 2004: N/A FY 2005:											N/A							
												(lillions				ı										
Cost: Prior Years				_		FY 2003	FY 2004			FY 2005		FY 2006			FY 2007			FY 2008		FY 2009			Complete			
	Qty	\$	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEARS	20	15.45	55																						###	15.45
FY 2002 EQUIPMENT	-					2	3.000	)																	2	3.00
FY 2003 EQUIPMENT	-																								0	0.000
FY 2004 EQUIPMENT	-																								0	0.000
FY 2005 EQUIPMENT	-												1		1.500	)									1	1.
FY 2006 EQUIPMENT	-																						$\perp$		0	0.0
FY 2007 EQUIPMENT	-																						$\perp$		0	0.000
FY 2008 EQUIPMENT	-																						$\bot$	<u> </u>	0	0.0
FY 2009 EQUIPMENT	-																						<u> </u>	<u> </u>	0	0.0
TO COMPLETE																							<u></u>			
INSTALLATION SCH	<u> IEDUL</u>	E:									T .															
	FY 2002 FY 2003 FY 2004							FY 200				<u> 2006</u>			FY 2				FY 2008			<u>/ 2009</u>		<u>TC</u>		
& Prior		2 3	4	-   -	1		3 4	1	2 3		1	2	3	4	1	2	3 4	1	2 3			2				TOTAL
In 20 Out 20	0	1 1	0		0	0	0 0	0	0 0		0	0	1	0	0	0	0 0	0	0 0	0	0	0		0	0	23 23
Out		1 1	0	L		0	0 0		0 0	) 0		- 0		U		0	0 0		0 0		0	U			0	
																						P-3.				
							ITE	EM 33		PAG	SE 14								CLA	SSIFIC	CATIC	ON: L	JNCL/	ASSIFIE	:D	

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFIC	CATION			
MODELS OF SYSTI	EM AFFECTED:	688 PHASE II - III KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUS	TIFICATION:					
688 TA - SA KIT; F	PROVIDES SPHERICA	AL ARRAY PROCESSING CA	PABILITY			
IDEVELOPMENT ST	ATUS/MAJOR DEVEL	LOPMENT MILESTONES:				

<u>FY 2002 &amp; Prior</u> QTY \$ QTY						<u>FY</u> QTY	<u>/ 2004</u> \$	<u>FY</u> QTY	<u>2005</u> \$	FY QTY	<u>2006</u> \$	<u>F1</u> QTY	<u>/ 2007</u> \$	<u>FY</u> QTY	<u>2008</u> \$	QTY	2009 \$	QTY	<u>TC</u> \$	QTY	<u>)TAL</u> \$
QIY	Φ	QII	Φ	QTY	\$	QIT	Đ	QII	Φ	QII	Φ	QIT	Φ	QIT	\$	QIT	Φ	QII	Φ	QIT	\$
																				0	0.000
5	25.604			4	28.000	3	21.400	1	7.300	1	7.400	3	22.800	1	7.750	1	7.750			19	128.004
	5.121				7.000		7.133		7.300		7.400		7.600		7.750		7.750				
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																				0	0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
5	11.144					4	9.400	3	7.200	1	2.400	1	2.400	3	7.500	1	2.550	1	2.550	19	45.144
	36.748				28.000		30.800		14.500		9.800		25.200		15.250		10.300				170.598
		5.121	5.121	5.121	5.121	5.121 7.000	5.121 7.000	5.121     7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.133     7.133       7.132     7.133       7.132     7.133       7.132     7.133       7.132     7.133       7.132     7.133       7.132     7.133       7.132     7.133       7.132     7.133	5.121     7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.000     7.133       7.133     7.133       7.134     7.134       7.135     7.134       7.135     7.134       7.135     7.134       7.136     7.134       7.137     7.134       7.138     7.134	5.121       7.000       7.133       7.300	5.121       7.000       7.133       7.300         1	5.121       7.000       7.133       7.300       7.400         1 <td>5.121       7.000       7.133       7.300       7.400         1<td>5.121       7.000       7.133       7.300       7.400       7.600         1</td><td>5.121       7.000       7.133       7.300       7.400       7.600         1</td><td>5.121       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200</td><td>5.121       7.000       7.133       7.300       7.400       7.600       7.750         1</td><td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750         1</td><td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       7.750         1<td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       1.750       <td< td=""><td>5       25.604       4       28.000       3       21.400       1       7.300       1       7.400       3       22.800       1       7.750       1       7.750       1       9.400       19         5       25.604       4       28.000       3       21.400       1       7.300       7.400       7.600       7.750       1       7.750       1       19         5.121       7.000       7.133       7.300       7.400       7.600       7.750       <td< td=""></td<></td></td<></td></td></td>	5.121       7.000       7.133       7.300       7.400         1 <td>5.121       7.000       7.133       7.300       7.400       7.600         1</td> <td>5.121       7.000       7.133       7.300       7.400       7.600         1</td> <td>5.121       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200</td> <td>5.121       7.000       7.133       7.300       7.400       7.600       7.750         1</td> <td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750         1</td> <td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       7.750         1<td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       1.750       <td< td=""><td>5       25.604       4       28.000       3       21.400       1       7.300       1       7.400       3       22.800       1       7.750       1       7.750       1       9.400       19         5       25.604       4       28.000       3       21.400       1       7.300       7.400       7.600       7.750       1       7.750       1       19         5.121       7.000       7.133       7.300       7.400       7.600       7.750       <td< td=""></td<></td></td<></td></td>	5.121       7.000       7.133       7.300       7.400       7.600         1	5.121       7.000       7.133       7.300       7.400       7.600         1	5.121       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.000       7.133       7.300       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.400       7.600       7.750         7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200       7.400       7.400       7.600       7.750         7.750       7.750       7.200	5.121       7.000       7.133       7.300       7.400       7.600       7.750         1	5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750         1	5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       7.750         1 <td>5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       1.750       <td< td=""><td>5       25.604       4       28.000       3       21.400       1       7.300       1       7.400       3       22.800       1       7.750       1       7.750       1       9.400       19         5       25.604       4       28.000       3       21.400       1       7.300       7.400       7.600       7.750       1       7.750       1       19         5.121       7.000       7.133       7.300       7.400       7.600       7.750       <td< td=""></td<></td></td<></td>	5.121       7.000       7.133       7.300       7.400       7.600       7.750       7.750       1.750 <td< td=""><td>5       25.604       4       28.000       3       21.400       1       7.300       1       7.400       3       22.800       1       7.750       1       7.750       1       9.400       19         5       25.604       4       28.000       3       21.400       1       7.300       7.400       7.600       7.750       1       7.750       1       19         5.121       7.000       7.133       7.300       7.400       7.600       7.750       <td< td=""></td<></td></td<>	5       25.604       4       28.000       3       21.400       1       7.300       1       7.400       3       22.800       1       7.750       1       7.750       1       9.400       19         5       25.604       4       28.000       3       21.400       1       7.300       7.400       7.600       7.750       1       7.750       1       19         5.121       7.000       7.133       7.300       7.400       7.600       7.750 <td< td=""></td<>

CLASSIFICAT		LASSIF	IED																				
P3A (Continue	ed)				INDIVIDU	AL M	ODIFICATIO	N (Co	ntinued)														
MODELS OF	SYSTEMS	AFFEC <sup>-</sup>	ΓED <u>:</u> 688 F	PHASE	II - III KITS	3	_ MODI	FICAT	ΓΙΟΝ TITLE:		SSN ACOU	STICS	3							-			
INSTALLATIO METHOD OF	IMPLEMEN	OITATI	N: SHIP	ALT		_																	
ADMINISTRA				- NI/A				LION I	_EADTIME:		12	Mor		0004	00/04				EV 000E		0.05		
CONTRACT DELIVERY DA		FY 200 FY 200		N/A N/A			FY 2003: FY 2003:		03/03				FY 2 FY 2		03/04			-	FY 2005: FY 2005:		3/05		
DELIVERY DI		200	, <u>.</u> .	14// (			_ 1 1 2000.		00/01					.00 1.	00,00			-	2000.		0,00		
04		D-i-	- \/		EV0000		EV 0000		E)/ 0004		\$ in Millions)		V 0000		EV 0007	1	TV 0000		-V 0000	IT- 0		ı	T-4-1
Cost		Qty	r Years \$	Qtv	FY2002   \$	Qtv	FY 2003	Qtv	FY 2004 \$	Qty	FY 2005 \$	Qty	Y 2006 \$	Qty	FY 2007 \$	Qty	FY 2008 \$	Qty	FY 2009 \$	Qty	omplete \$	Qtv	Total \$
		Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PRIOR YEAR	RS	5	####	0	0.00	0																5	11.144
FY 2002 EQI	JIPMENT					0	0.000	)														0	0.000
FY 2003 EQI	JIPMENT							4	9.400													4	9.400
FY 2004 EQI	JIPMENT									3	7.200											3	7.200
FY 2005 EQI	JIPMENT											1	2.40	00								1	2.400
FY 2006 EQI	JIPMENT													1	2.400	0						1	2.400
FY 2007 EQI	JIPMENT															3	7.500					3	7.500
FY 2008 EQI	JIPMENT																	1	2.550			1	2.550
FY 2009 EQI	JIPMENT																			1	2.550	1	2.550
TO COMPLE	TE																						
INICTALLAT	FION COUR	-DIII F.																					
INSTALLAT	FY 2002	DULE:	FY 2003		$\neg$	EV '	2004	1	FY 2005		FY 20	006		EV	2007		FY 2008		FY 2	000		TC	
	& Prior	1	2 3	4			3 4	$\prod_{1}$	2 3	4	1 2	3	4 1		3 4	1	2 3	4	1 2	3	4	10	TOTAL
In	4	0	0 0	0	-   - 0		- — —	0	1 2	1	0 0	1	0 0		1 0	0	1 1	1	0 1	0	0	0	19
Out	4	0	0 0	0	0	0		0	1 2	1	0 0	1	0 0		1 0	0	1 1	1	0 1	0	0	0	19
•	<u> </u>												•										
																		- · <del>-</del> · -	P-3A				
							ITEM N	O. 33		PAG	E 16						CLAS	SIFIC	ATION: UN	ICLA	SSIFIED		

CLASSIFICATION: UN	NCLASSIFIED						
P3A		INDIVIDUAL MODIFICA	ATION				
MODELS OF SYSTEM A	AFFECTED:	688 PHASE III KIT	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS	
DESCRIPTION/JUSTIFIC	CATION:						
688 A-RCI SA KITS; PR	ROVIDES SPHERIC	CAL ARRAY PROCESSING C	APABILITY				
L DEVELOPMENT STATU	JS/MAJOR DEVEL	OPMENT MILESTONES:					
			-				

		002 & Prior		_	_	2003		2004		2005		2006		2007		2008		2009		<u>TC</u>		<u>TAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
<u>RDT&amp;E</u>																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS	2	16.562			2	19.200	2	19.584													6	55.346
INSTALLATION KITS - UNIT COST		8.281				9.600		9.792														
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST	1	2.234			1	2.700	2	5.100	2	5.200											6	15.234
TOTAL PROCUREMENT		18.796				21.900		24.684		5.200										SSIFICATION		70.580

CLASSIFICATION: UNC	CLASSIF	IED																							
P3A (Continued)			II	NDIVIDU	AL MC	DIFICATIO	N (Co	ntinued)																	
MODELS OF SYSTEMS	AFFEC <sup>*</sup>	TED: 688 P	HASE I	II KITS		MODIF	FICAT	ION TITLE:		SSN ACO	USTI	os													
INSTALLATION INFORM METHOD OF IMPLEMEN ADMINISTRATIVE LEAD	NTATIO	N: SHIP	ALT			PRODUCT	IONII	EADTIME.		40	2 Mor	41													
CONTRACT DATES:	FY 200		N/A			FY 2003:	ION L	3/03	-	12	OIVIOI		FY 20	<u></u>	:	3/04					FY 200	)5·	3/05		
DELIVERY DATE:	FY 200		N/A			FY 2003:		3/04		<u> </u>			FY 20			3/05					FY 200		3/06		
									(\$	in Millions)	,														
Cost:	Prid	or Years				FY 2003		FY 2004		Y 2005		FY 200	06		FY 200	07	F	Y 2008		FY	2009	То	Comple	ete	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	-	\$	Qty	;	\$	Qty	\$	C	Qty	\$	Qt	у \$	Qty	\$
PRIOR YEARS	1	2.234			1	2.700						i												2	4.934
FY 2002 EQUIPMENT																								0	0.000
FY 2003 EQUIPMENT							2	5.100	0															2	5.100
FY 2004 EQUIPMENT									2	5.200	)													2	5.200
FY 2005 EQUIPMENT																								0	0.000
FY 2006 EQUIPMENT																								0	0.000
FY 2007 EQUIPMENT																								0	0.000
FY 2008 EQUIPMENT																								0	0.0
FY 2009 EQUIPMENT																								0	0.0
TO COMPLETE																									
INSTALLATION SCH	EDULE:																								
FY 2002		FY 2003			FY 2	2004		FY 2005		FY 2	2006			FY	2007			FY 200	<u>8</u>		<u>F</u>	Y 2009	3	TC	
& Prior	1	2 3	4	1		3 4	1	2 3	4	1 2	3	4	1	2	3	4	1	2 3		4		2 3			TOTAL
In 1	1	0 0	0	0		1 1	0	0 1	1	0 0	0	0	0	0	0	0	0	0 (		- II		0 0		0	6
Out 1	1	0 0	0	0	0	1 1	0	0 1	1	0 0	0	0	0	0	0	0	0	0 (	)	0	0	0 0	0	0	6
																					_				
						ITEM NO	D. 33		PAG	E 18								CI	ASSI	FICA		-3A UNCI	LASSIF	IED	
										•								٥_							

CLASSIFICATION:	UNCLASSIFIED							
P3A		INDIVIDUAL MODIF	ICATION					
MODELS OF SYSTE	EM AFFECTED:	688I PHASE II KITS	TYPE MODIFICATION:	SHIP ALT	_	MODIFICATION TITLE:	SSN ACOUSTICS	
DESCRIPTION/JUS	TIFICATION:							
A-RCI 688 I TA KIT	S; PROVIDES TB-29	ARRAY PROCESSING CAR	PABILITY AND IMPROVED DET	TECTION.				
DEVELOPMENT ST	ATUS/MAJOR DEVEL	OPMENT MILESTONES:			_			

FY 2002 & Prior OTY \$ OTY \$				FY	2003	FY	2004	<u>FY</u>	2005	<u>FY</u>	2006	<u>FY</u>	2007	<u>FY</u>	2008	FY	2009		<u>TC</u>	TC	<u>TAL</u>
QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
																					0.000
13	35.473																			13	35.473
	2.729																				
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
13	10.007			1	0.900															14	10.907
	45.480				0.900																46.380
	13 13	QTY \$  13 35.473 2.729  13 10.007	QTY \$ QTY  13 35.473 2.729  13 10.007	QTY \$ QTY \$  13 35.473 2.729  13 10.007	QTY \$ QTY \$ QTY  13 35.473  2.729  13 10.007 1	QTY \$ QTY \$ QTY \$  13 35.473 2.729  13 10.007  1 0.900	QTY \$	QTY \$ QTY \$ QTY \$ QTY \$ 13 35.473	QTY \$	QTY         \$         QTY         \$<	QTY \$	QTY \$	QTY \$	QTY         \$	QTY         \$	QTY         \$         QTY         \$<	QTY         \$	QTY         \$	QTY         \$         QTY         QTY         \$         QT	QTY         \$	QTY         \$

CLASSIFICATION: UNC	CLASSIF	FIED																									
P3A (Continued)			I	INDIVIDU	JAL MC	DIFICATION	N (Co	ntinu	ed)																		
MODELS OF SYSTEMS	AFFEC	TED: 6881	PHASE	II KITS		MOD	IFICA <sup>-</sup>	TION 1	ΓITLE:		SSN	ACOU	STIC	s													
INSTALLATION INFORM METHOD OF IMPLEME	NTATIO	N: SHIP A	<b>ALT</b>																								
ADMINISTRATIVE LEAD			_			PRODUC <sup>®</sup>	TION I	_EAD1	ГІМЕ:			12	Mon			_											
CONTRACT DATES:	FY 20		3/02			FY 2003:		N/A							FY 20		N/A					FY 2			N/A		
DELIVERY DATE:	FY 20	02:	3/03			FY 2003:		N/A	Α						FY 20	004:	N/A					FY 2	005:		N/A		
											n Millic																
Cost:		or Years		Y 2002		FY 2003		FY 2			FY 200			FY 20			Y 2007		FY 200			Y 200			omplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	/	\$	Qty	\$	6	Qty		\$	Qty	\$	Qty	\$	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEARS	12	10.007																								12	10.007
FY 2002 EQUIPMENT					1	0.900	ס																			1	0.900
FY 2003 EQUIPMENT																										0	0.000
FY 2004 EQUIPMENT																										0	0.000
FY 2005 EQUIPMENT																										0	0.0
FY 2006 EQUIPMENT																										0	0.0
FY 2007 EQUIPMENT																										0	0.000
FY 2008 EQUIPMENT																										0	0.0
FY 2009 EQUIPMENT																										0	0.0
TO COMPLETE																											
		-																									
INSTALLATION SCH	EDULE:																										
FY 2002		FY 2003			FY 2	2004		<u> </u>	Y 2005			FY 20	006			FY 2	007		FY 2	2008			FY 20	009		TC	
& Prior	1	2 3	4	1	2	3 4	J Ŀ	1 2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4		TOTAL
In 12	0	0 1	0	0	0	0 0		0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	13
Out 12	0	0 1	0	0	0	0 0		0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	13
						ITEM	NO 3	13		PAG	E 20									CLAS	SIFIC		P-3A	ICI A	SSIFIE	D.	
						LIVI				. , .0										CL/ 101	J. 10				: IL	_	

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFIC	ATION			
MODELS OF SYSTE	EM AFFECTED:	688I PHASE II - IV KITS	TYPE MODIFICATION:	SHIP ALT	 MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUS	TIFICATION:					
688I A-RCI TA - SA	VHF KITS; PROVIDES	S SPHERICAL ARRAY PROCI	ESSING AND UNDER ICE CA	APABILITY.		
DEVELOPMENT ST	ATUS/MAJOR DEVEL	OPMENT MILESTONES:				

	<u>FY 2002 &amp; Prior</u> QTY \$ QTY							<u>/ 2004</u> \$	<u>F\</u> QTY	<u>/ 2005</u> \$		<u>/ 2006</u> \$	<u>FY</u> QTY	2007 \$	<u>FY</u> QTY	2008	<u>FY</u> QTY	2009 \$	QTY	<u>TC</u> \$	<u>TC</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)	QII	φ	QII	Ψ	QTY	\$	QII	Φ	QIT	Φ	QII	Φ	QII	Φ	QII	Φ	QII	Ψ	QII	Φ	QII	Φ
<u>RDT&amp;E</u>																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS/TA-SA KITS	5	36.325			3	23.400	4	31.800	4	32.500											16	124.025
INSTALLATION KITS - UNIT COST		7.265				7.800		7.950		8.125												
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST	1	1.333			4	8.804	3	6.100	4	8.300	4	8.500									16	33.037
TOTAL PROCUREMENT		37.658				32.204		37.900		40.800		8.500				_						157.062

CLASSIFICATION: UNC	LASSIF	IED																								
P3A (Continued)			I	INDIVIDU	AL MC	DIFICATIO	N (Co	ntinued)																		
MODELS OF SYSTEMS	AFFEC	TED: 688I	PHASE	II - IV KIT	S	MODI	FICAT	TION TITLE:		SSN ACO	USTIC	S											-			
INSTALLATION INFORM METHOD OF IMPLEMEI	OITATIO	N: SHIP	ALT																							
ADMINISTRATIVE LEAD			_			PRODUCT	ION L			1	2 Mor			-												
CONTRACT DATES:	FY 20		N/A			FY 2003:		3/03					FY 200			3/04					FY 2			3/05		
DELIVERY DATE:	FY 20	02:	N/A			FY 2003:		3/04					FY 200	)4:	<u> </u>	3/05					FY 2	005:		3/06		
									(	\$ in Millions	s)															
Cost:	Pri	or Years				FY 2003		FY 2004		FY 2005		FY 200			FY 200	17		Y 200			FY 20	09		omplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	9	\$	Qty	9	3	Qty	(	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEARS	1	1.333	3																						1	1.333
FY 2002 EQUIPMENT					4	8.804																			4	8.804
FY 2003 EQUIPMENT							3	6.100																	3	6.100
FY 2004 EQUIPMENT									4	8.30	0														4	8.3
FY 2005 EQUIPMENT											4		8.500												4	8.5
FY 2006 EQUIPMENT																									0	0.000
FY 2007 EQUIPMENT																									0	0.000
FY 2008 EQUIPMENT																									0	0.000
FY 2009 EQUIPMENT																									0	0.0
TO COMPLETE																										
INSTALLATION SCHI	DULE:						1					r														
FY 2002		FY 2003	_		FY 2			FY 2005			<u> 2006</u>			FY 2					2008			FY 2			<u>TC</u>	
& Prior	1	2 3	_ 4	1		3 4	1	2 3	4	1 2	3	4	1		3	4	1	_2_	3	4	1	2	3	4		TOTAL
In 1	2	2 0	0	0		1 1	1	1 1	1	0 1	2	1	0	0	0	0	0	0	0	0	_	0	0	0	0	16
Out 1	2	2 0	0	0	1	1 1	1	1 1	1	0 1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	16
						ITE	M 33		PAG	F 22									CLAS	SIFIC		P-3A	CLAS	SIFIED		
																			ULAO:							

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFIC	CATION			
MODELS OF SYSTE	EM AFFECTED:	688I PHASE IV KIT	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUS	TIFICATION:					
688I A-RCI SA - HF	KITS; PROVIDES SI	PHERICAL ARRAY PROCES	SSING AND UNDER ICE CAPABILIT	Y.		
DEVELOPMENT ST	ATUS/MAJOR DEVELO	OPMENT MILESTONES:	OPEVAL 4nd QTR FY02		_	

	EV 20	002 & Prior		ΕV	2003	E۷	2004	E۷	2005	E۷	2006	F۷	2007	F۷	2008	E۷	2009		<u>TC</u>	I
	QTY		QTY	\$	\$	QTY		QTY		QTY		QTY		QTY		QTY		QTY	<u>10</u> \$	QTY
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS/SA KITS	6	50.288				1	10.812													7
INSTALLATION KITS - UNIT COST		8.381					10.812													
EQUIPMENT NONRECURRING																				
EQUIPMENT																				
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	6	15.641						1	2.300											7
TOTAL PROCUREMENT		65.929					10.812		2.300											ON: UNC

CLASSIFICATION: UN	CLASSII	FIED																										
P3A (Continued)				INDIVID	UAL MO	DDIFICA	TION	(Con	tinued)																			
MODELS OF SYSTEMS	SAFFEC	TED <u>: 6881 F</u>	PHASE I	V KITS		_ M0	DDIFIC	CATIO	ON TITLE:		SS	SN ACOU	STICS	i											_			
INSTALLATION INFORI			<b>L</b> T																									
ADMINISTRATIVE LEA	DTIME:	24 MOS				PRODU	JCTIC	ON LE	ADTIME:			12	2 Mon	ths														
CONTRACT DATES:	FY 20		N/A			FY 200			N/A	•					FY 20			03/04				_	FY 2			N/A		
DELIVERY DATE:	FY 20	02:	N/A			FY 200	3:		N/A			_			FY 20	004:		03/05					FY 2	2005:		N/A		
										(5	\$ in	Millions)																
Cost:		ior Years				FY 2003			Y 2004		FY	2005		-Y 20			FY 20			Y 200			FY 20			omplet		Total
	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Qty		\$	Qty		\$	Qty		\$	Qty	(	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEARS	6	15.641	ı																								6	15.641
FY 2002 EQUIPMENT																											0	0.000
FY 2003 EQUIPMENT																											0	0.000
FY 2004 EQUIPMENT										1		2.300	)														1	2.300
FY 2005 EQUIPMENT																											0	0.000
FY 2006 EQUIPMENT																											0	0.000
FY 2007 EQUIPMENT																											0	0.000
FY 2008 EQUIPMENT																											0	0.0
FY 2009 EQUIPMENT																											0	0.0
TO COMPLETE																												
INSTALLATION SCH	EDULE:																											
FY 2002		FY 2003			FY	2004			FY 2005			FY 2	006			FY 2	2007			FY	2008			FY 2	009		TC	
& Prior	1	2 3	4	-	1 2	3	4	1	2 3	4	_1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In 6	0	0 0	0	(	0	0	0	0	0 1	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Out 6	0	0 0	0		0	0	0	0	0 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
																								P-3A				
							ITEN	И 33		PAG	E 2	4									CLAS	SIFIC	CATIO	N: <b>UN</b>	CLAS	SIFIE	)	

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	TSMS	S		=	TYP	E MODIF	ICAT	ION:	SHIP	ALT		_			MOE	DIFICATION	ON T	ITLE:	SSN	ACOUS	ΓICS	
DESCRIPTION/JUSTIFICATION:																						
The installation funding cited in FY 2003 a monitoring to enhance the ships situational											(age).	Total S	hip Mo	onitoring	Syste	m (TSMS	S) pro	ovides ov	vn shi	p environ	mental a	nd noise
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILES	TONE	S:																		
	FY 2 QTY	2002 & Prio ′\$	<u>r</u> QTY	_ 	<u>F`</u> QTY	<u>Y 2003</u>		<u>/ 2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$		<u>Y 2006</u>	<u>F\</u> QTY	<u>/ 2007</u> \$		<u>/ 2008</u>	<u>F`</u> QTY	<u>/ 2009</u> ′\$	QTY	<u>TC</u> \$	<u>T</u> QTY	ΓΟΤΑL \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS					9	7.191	5	4.000	9	7.300	10	8.500	13	11.200	5	4.395	7	6.300			58	48.886
INSTALLATION KITS - UNIT COST						0.799		0.800		0.811		0.850		0.862		0.879		0.900				
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000

ITEM 33

9 10.426

14.426

1.876

9.067

TRAINING EQUIPMENT
SUPPORT EQUIPMENT

INTERIM CONTRACTOR SUPPORT

OTHER

OTHER

OTHER

INSTALL COST

TOTAL PROCUREMENT

PAGE 25

5.600

12.900

9 10.300

18.800

10 | 11.700 | 13 | 15.500 | 5 |

19.895

22.900

CLASSIFICATION: UNCLASSIFI

58

8.470

8.470

7

6.050

12.350

0.000

0.000

0.000

0.000

0.000

0.000

69.922

CLASSIFICATION: UI	ICLASSII	FIED																									
P3A (Continued)					INDI	IVIDUA	AL MC	DIFIC	ATIO	N (Co	ntinued)																
MODELS OF SYSTEM	S AFFEC	TED <u>:</u>	TSMS	S				N	MODIF	FICAT	ION TITLE	i:		SSN ACOL	JSTIC	S								_			
INSTALLATION INFORMETHOD OF IMPLEM	ENTATIO	N:		ALT			_																				
ADMINISTRATIVE LEACONTRACT DATES:	ADTIME: FY 20		MOS	NI/A				PROD FY 20		ION L	EADTIME: 03/03		_	1.	2 Mor	nths	FY 2004	-	03/04				FY 2005:		03/05		
DELIVERY DATE:	FY 20			N/A N/A				FY 20			03/03						FY 2004 FY 2004		03/04			-	FY 2005:		03/05		
BELIVEIN BATE.	20	o <u>.</u> .		14//				20			00/01						2001		00/00			-	1 1 2000.		00/00		
Cost:	Dei	or Vo	oro				1 1	FY 200	2		FY 2004			(\$ in f FY 2005	Millions		2006	1	FY 2007		FY 2008	1	FY 2009	T <sub>0</sub> C	amplete		Total
COSI.	Qty	or Ye	\$ \$	Qty		\$	Qty			Qty	\$		Qty	\$	Qty		\$	Qty	\$	Qty		Qty	\$	Qty	omplete \$	Qty	10tai \$
	Qty		Ψ	Qty		Ψ	Qty	Ψ		Qty	Ψ	+	ωιy .	Ψ	Qty		Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PRIOR YEARS																										0	0.000
FY 2002 EQUIPMEN	Г																									0	0.000
FY 2003 EQUIPMEN	Г									9	10.4	26														9	10.426
FY 2004 EQUIPMEN	Г												5	5.60	0											5	5.600
FY 2005 EQUIPMEN	Г														9		10.300									9	10.300
FY 2006 EQUIPMEN	Г																	10	11.700							10	11.700
FY 2007 EQUIPMEN	Г																			13	15.500					13	15.500
FY 2008 EQUIPMEN	Г																					5	6.050	)		5	6.050
FY 2009 EQUIPMEN	Γ																							7	8.4	70 7	8.470
TO COMPLETE																											
INSTALLATION SC	HEDULE:																										
FY 2002		<u>F\</u>	2003				FY 2	<u> 2004</u>			FY 2005	<u>5</u>		FY 2	2006			FY 2			FY 2008		FY 2	<u>009</u>		TC	
& Prior	1	2	3	4	-   -	1	2	3	4	1	2 3		4	1 2	3	4	1	2	3 4	1	2 3	4	1 2	3	4		TOTAL
In 0	0	0	0	0		0	1	4	4	0	1 2		2	0 0	5	4	0	3	4 3	2	4 4	3	2 2	1	0	7	58
Out 0	0	0	0	0		0	1	4	4	0	1 2		2	0 0	5	4	0	3	4 3	2	4 4	3	2 2	1	0	7	58
																							P-3A				
								Ite	em No	o. 33		F	PAGE	E 26							CLASS	IFICA	TION: UNC	LASSI	IFIED		

CLASSIFICATION:	UNCLASSIFIED

P3A	INDIVIDUAL MODIFICATION					
MODELS OF SYSTEM AFFECTED:	ACTIVE INTERCEPT & RANGING KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS	

## DESCRIPTION/JUSTIFICATION:

**INSTALL COST** 

TOTAL PROCUREMENT

The installation funding cited for FY 2003 and FY 2004 (\$1.1M) is for Design Services (SHIPALT package development). Replaces obsolete WLR-9 electronics with COTS Open Architecture digital processor integrated with ARCI, on both SSN and SSBN. Installed with sensor which improves accuracy and fidelity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2002 & Prior FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 **TOTAL** QTY \$ QTY \$ QTY \$ QTY \$ QTY QTY QTY QTY QTY QTY FINANCIAL PLAN (IN MILLIONS) RDT&E 0.000 **PROCUREMENT** 5 10 13 5 58 INSTALLATION KITS (INTERCEPT) 6.201 4.000 6.000 7.300 9.700 3.785 5.411 42.397 0.689 0.667 0.730 0.746 0.757 **INSTALLATION KITS - UNIT COST** 0.800 0.773 INSTALLATION KITS NONRECURRING 0.000 0 0.000 **EQUIPMENT (SENSOR)** EQUIPMENT (SENSOR) - UNIT COST **ENGINEERING CHANGE ORDERS** 0.000 DATA 0.000 TRAINING EQUIPMENT 0.000 SUPPORT EQUIPMENT 0.000 OTHER 0.000 OTHER 0.000 OTHER 0.000 INTERIM CONTRACTOR SUPPORT 0.000

ITEM 33 PAGE 27

5

1.300

7.300

9

2.300

9.600

10

2.700

12.400

13

3.500

7.285

5

1.350

6.761

7

1.000

7.201

0.000

9 3.400

7.400

CLASSIFICATION: UNCLASSIF

58

17.510

59.907

1.960

CLASSIFICATION: U	NCLASS	IFIED																								
P3A (Continued)				II	NDIVIDUA	L MC	ODIFICATIO	N (Co	ontinued)																	
MODELS OF SYSTEM	IS AFFE	CTED: AC	TIVE II	NTE	RCEPT &	RAN	GING KITS		MODIFICAT	ION	TITLE:	,	SSN	I ACOUS	STICS							_				
INSTALLATION INFO METHOD OF IMPLEM ADMINISTRATIVE LE CONTRACT DATES:	ENTATIO	ON: <b>SI</b> 24 MO				<u>-</u>	PRODUC' FY 2003:	ΓΙΟΝ Ι	_EADTIME: 03/03			12	Mon		Y 2004:		03/04				FY 2005:		03/05			
DELIVERY DATE:	FY 2		N/				FY 2003:		03/04						Y 2004:		03/05			_	FY 2005:		03/06			
							-					: N 4:11:	\							_						
Cost:	Pı	ior Years					FY 2003	I	FY 2004		FY 200	in Millio	ons)	FY 2006	6		FY 2007		FY 2008		FY 2009	То С	Complete	е	-	Total
	Qty	\$	Qt	ty	\$	Qty		Qty	\$	Qty			Qty	\$		Qty	\$	Qty		Qt		Qty			Qty	\$
PRIOR YEARS																									0	0.000
FY 2002 EQUIPMEN	Т																								0	0.000
FY 2003 EQUIPMEN	Т							9	3.400																9	3.400
FY 2004 EQUIPMEN	Т									5		2.300													5	2.300
FY 2005 EQUIPMEN	Т												9		2.300										9	2.300
FY 2006 EQUIPMEN	Т															10	2.700	)							10	2.700
FY 2007 EQUIPMEN	Т																	13	3.50	0					13	3.500
FY 2008 EQUIPMEN	Т																			ļ	1.35	0			5	1.350
FY 2009 EQUIPMEN	Т																					7		1.960	7	1.960
TO COMPLETE																										
INSTALLA <u>TION SC</u>	HEDULE	i:						1																		
FY 2002		FY 20				FY 2			FY 2005			FY 200				FY 20			FY 2008		FY 2				<u>TC</u>	
& Prior	$\dashv$		3 4	_	1		3 4	1	2 3	4	1 -	2	3	4	1	2	3 4	1 1	2 3	4		3	4		<del></del>	TOTAL
In 0 Out 0	0 0		) (	)	0 0	1	4 4 4 4	0	1 2 1 2	2	0	0	5 5	4   4	1 1	3	4 2 4 2		4 4 4 4	4	2 2 2 2	1 1	0		7	58 58
Out 0		0	, (	,					1 2		10	0	J	<del>-</del>	'	<u> </u>	4 2	<b>→ └</b> ─					U		Щ.	50
																					P-3A					
							ITEM N	O. 33		PAG	SE 28								CLAS	SIFIC	CATION: UNC	LASS	IFIED			

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	AI&R	SENSORS	(BACKF	·IT)	TYPI	E MODI	FICAT	ION:	NON	N-SHIPAL	_T	<b>-</b> .			MOD	IFICATION	ON TI	ITLE:	SSN	Acoustics		
DESCRIPTION/JUSTIFICATION:																						
The installation funding cited on this P3A is	s inclu	ided in BLI	214700	) not 21	4705;																	
L DEVELOPMENT STATUS/MAJOR DEVELO	ОРМЕ	ENT MILES	TONES	3:								-										
	FY 2	2002 & Prio	r		FY	<u> 2003</u>	FY	<u> 2004</u>	FY	′ 2005	FY	2006	F۱	<u> 2007</u>	FΥ	<u> 2008</u>	F١	<u>/ 2009</u>		TC	٦	TOTAL
	QTY		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	<u>TC</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS									2	0.800	11	6.500	11	5.600	13	6.800	17	9.000			54	28.700
INSTALLATION KITS - UNIT COST										0.400		0.591		0.509		0.523		0.529				
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST											2	0.400	11	2.200	11	2.200	13	2.600	17	3.400	54	10.800

TOTAL PROCUREMENT

6.900

7.800

9.000

11.600

3.400 39.500 CLASSIFICATION: UNCLASSIF

CLASSIFICATION	: UNC	LAS	SIFIE	)																										
P3A (Continued)					INE	DIVIDU	AL M	IODIF	ICATIO	ON (Co	ontinu	ied)																		
MODELS OF SYS	TEMS.	AFFE	CT <u>E</u>	D: Al	&R 5	SENSC	DRS (	BAC	MODIF	ICATI	ON TI	TLE:		SSN	ACOU	ISTIC	S													
INSTALLATION IN METHOD OF IMPI ADMINISTRATIVE CONTRACT DATE DELIVERY DATE:	LEMEN E LEAD ES:	ITAT TIME FY 2	ON:	MOS N/	`A	RD	_	PRC FY 2 FY 2		ION LI	EADTI 2/01 2/02	IME:	-		12	Mon		FY 2004: FY 2004:							FY 2005 FY 2005			2/03 2/04		_
															/ው :	~ NA:III	:\										_			
Cost:		Prio	Year	S				FY 20	003	F	Y 200	)4	F	Y 200		n Milli	FY 2	006	F	FY 2007		F	Y 2008	F	FY 2009	Т	о Со	mplete		Total
		Qty	\$	Qty	/	\$	Qty		\$	Qty		\$	Qty	;	\$	Qty		\$	Qty	\$		Qty	\$	Qty	\$	(	Qty	\$	Qty	\$
PRIOR YEARS																													0	0.000
FY 2002 EQUIPM	MENT																												0	0.000
FY 2003 EQUIPM	MENT																												0	0.000
FY 2004 EQUIPM	MENT																												0	0.000
FY 2005 EQUIPM	MENT															2		0.400											2	0.400
FY 2006 EQUIPM	MENT																		11	2.	200								11	2.200
FY 2007 EQUIPM	MENT																					11	2.200						11	2.200
FY 2008 EQUIPM	MENT																							13	2.6	000			13	2.600
FY 2009 EQUIPM	MENT																										17	3.400	17	3.400
TO COMPLETE																														
INSTALLATION	N SCHE	DUL	E:																											
FY 2	2002		FY 2	2003			FY	2004	<u> </u>		FY	2005			FY 20				FY 20	007			FY 2008		<u>F</u>	Y 200	<u> 9</u>		<u>TC</u>	
	Prior	_	2 3			1		3	4	1	2	3	4	1	2	3	4	1		-	4	1	2 3	4	<del></del>			4		TOTAL
	0	-	0 (		_		0	-	0	0	0	0	0	0	1	1	0	2	-		2	2	3 4	2	3 4	-	4	2	17	54
Out	0	0	0 (	0	0	0	0	0	0	0	0	0	0	0	11	1	0	2	3	4	2	2	3 4	2	3 4	+	4	2	17	54
																									5.4					
									ITEM N	0. 33			PAG	E 30									CLAS	SIFIC	P-3 ATION:		LASS	SIFIED		

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	AI&R	SENSORS			TYPI	E MODII	FICAT	ION:	NON-S	SHIPAL <sup>-</sup>	Т				MOD	IFICATION	ON TI	TLE:	SSN	Acoustics	i	
				•								•										
DESCRIPTION/JUSTIFICATION:  The funding cited in this P3A is included in	BII2	14700 not	214705	j.																		1
The fallang close in the Fox to included in	. DL. <b>L</b>			<b>,</b>																		
L DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	NT MILES	TONES	S:																		
FY 2002 & Prior														ΓΩΤΔΙ								
			QTY	\$	QTY	\$	QTY	\$					QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS													8	4.100	22	11.200					30	15.300
INSTALLATION KITS - UNIT COST														0.513		0.509						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST															8	0.800	22	2.200			30	3.000
TOTAL PROCUREMENT														4.100		12.000		2.200				18.300

CLASSIFICATION: UN	CLAS	SIFIED	)																										
P3A (Continued)				IND	DIVIDU	AL N	IODIF	ICATIO	ON (C	ontinu	red)																		
MODELS OF SYSTEMS	AFF	ECT <u>E</u>	): AI8	kR S	SENSO	RS	_	MODIF	ICAT	ION T	ITLE:		SSN	ACOL	JSTIC	s													
INSTALLATION INFORI METHOD OF IMPLEME ADMINISTRATIVE LEA	NTA	TION:			RD	_	PRO	DUCT	ION L	EADT	IME:			12	Mon	nths													
CONTRACT DATES:		2002:					FY 2			2/01		•					FY 2004						_	FY 2005			2/03		
DELIVERY DATE:	FY	2002:	N//	<u>A</u>			FY 2	2003:		2/02							FY 2004	4:					-	FY 2005	5:		2/04		
															n Mill														
Cost:		or Year			Φ.		FY 20			FY 200			Y 20		O#.	FY 20			FY 20			Y 2008		FY 2009			omplete	L Oh. I	Total
	Qty	\$	Qty		\$	Qty		\$	Qty		\$	Qty		\$	Qty		\$	Qty		\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEARS																												0	0.000
FY 2002 EQUIPMENT																												0	0.000
FY 2003 EQUIPMENT																												0	0.000
FY 2004 EQUIPMENT																												0	0.000
FY 2005 EQUIPMENT																												0	0.000
FY 2006 EQUIPMENT																												0	0.000
FY 2007 EQUIPMENT																					8	0.800						8	0.800
FY 2008 EQUIPMENT																							22	2.2	200			22	2.200
FY 2009 EQUIPMENT																												0	0.000
TO COMPLETE																													
INSTALLATION SCH	EDU	LE:			T (************************************																			1					
FY 2002		FY 2					2004	-			2005			FY 2				FY 20				FY 2008			Y 20			<u>TC</u>	
& Prior	1				1		3	4	1	2	3	4	1	2	3	4	1		3	4	1	2 3	4		2	3_			TOTAL
In 0 Out 0	0	0 0				0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	3 3 3	2		6 6	7 7	5 5	0 0	30 30
0	1 6	0 0	, 0		1	<u> </u>	<u> </u>			<u> </u>		U			U	<u> </u>			<u> </u>	- 0		<u> </u>		IL'		<u>'</u>			30
								TEM N	0.00			DAG	F 32									01.40	OIE	P-S		21.42	OIFIED		
								$I = I \setminus I \setminus I$					- 4/										>1H(						

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AI MO	DIFICA	TION																	
			AL IIIO								_											
MODELS OF SYSTEM AFFECTED:	BQS-	-15A EC-19 (SA105)		_	IYP	E MODI	FICAT	ION:	NON-	SHIPALT		-			MOL	DIFICATION	ON I	IILE:	SSN	Acoustics		
DESCRIPTION/JUSTIFICATION:		, ,																				
THE INSTALLATION FUNDING CITED IN	IFY 2	:008 IS INC	LUDEI	) IN BLI	21470	ONOT:	21470	5.														
DEVISIONMENT OTATIONALION DEVISI	ODM	ENT MU EO	TONE	0.																		
DEVELOPMENT STATUS/MAJOR DEVEL	OPINE	ENI MILES	TONE	5:								-										
		2002 & Prio				2003		2004		2005		<u> 2006</u>	<u>F`</u>	Y 2007		2008	<u>F</u>	2009		<u>TC</u>		TOTAL \$
	QTY	\$	QTY	′ \$ T	QTY	\$	QTY	\$	QTY	\$	QTY	' \$ 	QTY	\$	QTY	\$	QTY	\$	QTY	* \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS													1	0.300						0	1	0.300
INSTALLATION KITS - UNIT COST														0.300							<u> </u>	
INSTALLATION KITS NONRECURRING																					<u> </u>	
EQUIPMENT																					<u> </u>	
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																					<u> </u>	
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST															1	0 100				0	1	0 100

TOTAL PROCUREMENT

0.300

0.100

CLASSIFICATION: UNC	CLAS	SIFIE	D																							
P3A (Continued)				INDI	VIDU	AL M	ODIFICAT	ION (C	ontin	ued)																
MODELS OF SYSTEMS	AFF	ECT <u>E</u>	D:				MOD	IFICAT	TION T	TITLE:		SSN	ACOL	JSTICS	S											
INSTALLATION INFORM METHOD OF IMPLEME	NTA	ΓΙΟΝ:			)	-																				
ADMINISTRATIVE LEAD CONTRACT DATES:		E: 3-4 2002:					PRODUC FY 2003:	TION			-		12	Mont		FY 2004	<del>.</del>					EV 000	٠.	0/00		
DELIVERY DATE:		2002.					FY 2003:		2/01							FY 200 <sup>2</sup>					_	FY 200 FY 200		2/03 2/04		
				Ξ,						=						00		-			_					
Cost:	Dri	or Year	re				Y 2003		FY 20	204	1 1	Y 200		n Millio	ns) FY 2	006	1	FY 2007	1 1	Y 2008	1 =	Y 2009	ITo	Complete		Total
COSt.	Qty		Qty	/	\$	Qty	\$	Qty		\$	Qty	\$		Qty	F 1 Z	\$	Qty		Qty	\$	Qty	\$	Qty		Qty	\$
	j					Í																				·
PRIOR YEARS																									0	0.000
FY 2002 EQUIPMENT																									0	0.000
FY 2003 EQUIPMENT																									0	0.000
FY 2004 EQUIPMENT																									0	0.000
FY 2005 EQUIPMENT																									0	0.000
FY 2006 EQUIPMENT																									0	0.000
FY 2007 EQUIPMENT																			1	0.100	)				1	0.100
FY 2008 EQUIPMENT																									0	0.000
FY 2009 EQUIPMENT																									0	0.000
TO COMPLETE																										
																		•								
INSTALLATION SCH	EDU	LE:																								
FY 2002			2003			FY	2004	$\exists \vdash$	F١	/ 2005			FY 2	2006			FY 2	007		FY 2008		F	Y 2009		TC	
& Prior	1	_	3 3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3 4	1	2 3	4	_	2 3			TOTAL
In 0	0		0 0		0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	1 0	0	0	0 0	0	0	1
Out 0	0		0 0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0	0	1 0	0	0	0 0	0	0	1
																							-3A			
							ITEM N	NO. 33	3		PAGE	34								CLAS	SIFIC	ATION:	UNCL	ASSIFIED		

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	BQS-	-15A EC-20		=	TYP	E MODI	FICAT	ION:	SHIPA	ALT		_			MOE	IFICATION	т ис	ITLE:	SSN	Acoustics		
DESCRIPTION/JUSTIFICATION:																						
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILES	TONE	S:								_										
	FY 2	2002 & Pric	<u>r</u>		<u>F)</u>	<u>/ 2003</u>	<u>F)</u>	2004	FY	′ 200 <u>5</u>	<u>F`</u>	Y 2006	<u>F`</u>	Y 2007	<u>F</u>	<u> 2008</u>	<u>F`</u>	<u> 2009</u>		<u>TC</u>	Ţ	TOTAL
	QTY		QTY	\$	QTY	\$	QTY	\$	QTY		QTY		QTY				QTY		QTY	\$	QTY	
FINANCIAL PLAN (IN MILLIONS)																						
<u>RDT&amp;E</u>																						
<u>PROCUREMENT</u>																						ļ
INSTALLATION KITS									4	3.000	4	3.000	6	4.800	8	6.500	2	1.700		0	24	19.000
INSTALLATION KITS - UNIT COST										0.750		0.750		0.800		0.813		0.850				
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST											4	0.800	4	1.000	6	1.500	8	2.100	2	0.600	24	6.000
TOTAL PROCUREMENT										3.000		3.800		5.800		8.000		3.800		0.600		25.000

CLASSIFICATION:	UNCL	ASS	IFIED	)																									
P3A (Continued)					IND	IVIDU	AL M	ODIF	ICATIO	ON (C	ontinu	ied)																	
MODELS OF SYST	EMS A	AFFE	CT <u>EC</u>	): BQ	S-15	SA EC-	20	<u>-</u> 1	MODIF	ICATI	ON TI	TLE:		SSN	ACOL	ISTIC	S												
INSTALLATION INF METHOD OF IMPLE ADMINISTRATIVE I CONTRACT DATES DELIVERY DATE:	EMEN' LEAD1 S:	TAT <u>I</u> TIME FY 2	ON: 1 : 3-4	MOS N/A	A	PALT	_	PRO FY 2 FY 2		ION LI	EADTI 2/01 2/02	ME:	-		12	Mon		FY 2004 FY 2004					 _	FY 200 FY 200			2/03 2/04		_
													•			n Milli													
Cost:		Prior Qtv	Years	s Qty		\$		FY 20	03 \$	Qty	Y 200	) <u>4                                    </u>	Qty	Y 200	05 \$	Qty	FY 20	006 \$	Qty	FY 2007 \$	Qtv	FY 2008	Qtv	FY 2009 \$		To Co Qtv	omplete \$	Qtv	Total \$
PRIOR YEARS		Jly	<b>.</b>	Qiy		Ф	Qty		Φ	Qiy	•	Φ	Qly	•	Ф	Qiy		<b>D</b>	Qiy	Ф	Qiy	Φ	Qiy	\$		Qiy	Φ	Qly	0.000
FY 2002 EQUIPME	-NT																											0	0.000
FY 2003 EQUIPME																												0	0.000
FY 2004 EQUIPME																												0	0.000
FY 2005 EQUIPME	ENT															4		0.800										4	0.800
FY 2006 EQUIPME	ENT																		4	1.00	0							4	1.000
FY 2007 EQUIPME	ENT																				6	1.500	)					6	1.500
FY 2008 EQUIPME	ENT																						8	2.	100			8	2.100
FY 2009 EQUIPME	ENT																									2	0.600	2	0.600
TO COMPLETE																													
INSTALLATION S	SCHE	DULI	Ξ:																										
FY 20			FY 2					2004				<u> 2005</u>			FY 20				FY 20			FY 2008		<u> </u>	Y 20			<u>TC</u>	
& Pi			2 3					3	4	1_	2	3	4	1	2	_3_	4	11		3 4	1	2 3	4		2	3	4		TOTAL
In 0 Out 0		-	0 0	0	-	0	0	0	0	0	0	0	0	0	1 1	2	1   1	0 0	1 1	2 1 2 1	0	2 2 2	2		2	4	2 2	2 2	24 24
Out 0		U	0 0	· U	U	L	U	U	U	J [ U	U	U	U	U	<u> </u>		<u> </u>	U	ı	<u> </u>		2 2		][ 0	_	4	2		24
																									3A				
								IT	EM NO	). 33			PAG	E 36								CLAS	SSIFIC	CATION:	UNC	CLAS	SIFIED		

CLASSIFICATION: UNCLASSIFIED																						
РЗА		INDIVIDUA	L MC	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	SSN	21 PHASE IV	KIT (S	<u>S</u> A501)	TYP	E MODIF	ICAT	ION:	SHIP	ALT		_			MOE	DIFICATI	ON TI	TLE:	SSN	Acoustics	<u>;                                    </u>	
DESCRIPTION/JUSTIFICATION:																						
INSTALLATION FUNDING CITED FOR F	Y 200	2 & FY 2003	IS F	OR DES	IGN S	ERVICE:	S (SH	IIPALT P	ACKA	GE DEVE	LOPI	MENT);										
A-RCI PHASE IV KIT; ARCI-(V)5 KITS IN	ICORI	PORATE AF	CLPF	HASE II-	IV CAI	PARII IT\	/ FOF	R THE SI	F∆W∩I	F CLASS	s sur	RMARIN	ıF									
		01011271		., (02 11		, IDILIT		· · · · · · ·	L,		00.	51 <b>7</b> 117 til til t										
L DEVELOPMENT STATUS/MAJOR DEVEL	.OPMI	ENT MILES	ΓONE	S:																		
	<b>-</b>	0000 8 Dele-				/ 0000		V 0004				<u> </u>		/ 000 <del>7</del>		<i>,</i> ,,,,,,,	_	, 0000		то.		TOTAL
	QTY	<u>2002 &amp; Prior</u> ′\$	QTY	- \$	QTY	<u>/ 2003</u> * \$		<u>Y 2004</u> ′\$	QTY	<u>′ 2005</u> \$	QTY	<u>/ 2006</u> \$		<u>/ 2007</u> \$	QTY	<u>/ 2008</u> * \$	QTY	<u>2009</u> \$	QTY	TC \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																					+	
INSTALLATION KITS	1	6.683			1	9.700			1	10.100										0	3	26.48
INSTALLATION KITS - UNIT COST		6.683				9.700				10.100												
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						

TRAINING EQUIPMENT
SUPPORT EQUIPMENT

INTERIM CONTRACTOR SUPPORT

ΑP

0.635

7.318

OTHER
OTHER

INSTALL COST

TOTAL PROCUREMENT

3.100

3.100

1

2.500

12.200

AP

13.200

3.100 1 3.100

3.100

0

3

12.435

CLASSIFICATION: UN	CLAS	SIFIED																							
P3A (Continued)				INDIVID	UAL M	ODIFICATION	ON (Co	ontinued)																	
MODELS OF SYSTEM	S AFFI	ECT <u>ED</u> :	: SSN	21 PHA	SE IV K	IT MODI	FICAT	ION TITLE:		SSN ACO	USTIC	S										_			
INSTALLATION INFOR			HIPY	ARD																					
ADMINISTRATIVE LEA			_			PRODUCT	ION L	EADTIME:		12	Mon	iths		_											
CONTRACT DATES:		2002:				FY 2003:		2/01					FY 2004						_	FY 20			2/03		
DELIVERY DATE:	FΥ	2002:	N/A	١		FY 2003:		2/02					FY 2004						_	FY 20	JU5:		2/04		_
											n Millio														
Cost:		or Years				FY 2003		FY 2004		FY 2005	01	FY 2			FY 2007		FY 20			Y 2009			omplete	01 1	Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$	Qt	/	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEARS							1	3.100																1	3.10
FY 2002 EQUIPMENT																								0	0.00
FY 2003 EQUIPMENT									1	3.100	)													1	3.10
FY 2004 EQUIPMENT	-																							0	0.00
FY 2005 EQUIPMENT	-										1		3.100											1	3.10
FY 2006 EQUIPMENT																								0	0.00
FY 2007 EQUIPMENT																								0	0.00
FY 2008 EQUIPMENT	=																							0	0.00
FY 2009 EQUIPMENT																								0	0.00
TO COMPLETE																									
																•									
INSTALLATION SCH	HEDUL	.E:																							
FY 2002		FY 2	003		FY	2004		FY 2005		FY	2006			FY 2	007		<u>F</u>	Y 2008	3		FY 2	2009		TC	
& Prior	1	2 3	3_	4 1	2	3 4	1	2 3	4	1 2	3	4	1	2	3 4	1	2	3	4	1	2	3	4		TOTAL
In 0	0	0 0	0	0 1	0	0 0	1	0 0	0	1 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	3
Out 0	0	0 0	0	0 1	0	0 0	1	0 0	0	1 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	3
						ITEM N	O 33		PAG	E 38								CL A	SSIF		P-3A		ASSIFIED		

С	CLASSIFICATION:	UNCLASSIFIED					
P	3A		INDIVIDUAL MODIFIC	ATION			
M	ODELS OF SYSTEM	M AFFECTED:	SSBN PHASE II KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
D	ESCRIPTION/JUSTI	IFICATION:					
7	726 A-RCI TA KITS;	FUNDS CITED FOR	FY 2004 ARE FOR DESIGN	SERVICES (SHIPALT PACKA	GE DEVELOPMENT).		
F	PROVIDES TOWED	ARRAY PASSIVE PR	ROCESSING CAPABILITY				

DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILES	TONES	:							•										
		002 & Prio		-	<u>FY 2</u>		2004		2005		2006		<u>Y 2007</u>		2008		2009	O.T. (	TC		TAL
	QTY	\$	QTY	\$	QTY	\$ QTY	\$	QTY	\$	QIY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																				0	0.000
<u>PROCUREMENT</u>																					
INSTALLATION KITS						1	3.099	1	3.200	5	16.100									7	22.399
INSTALLATION KITS - UNIT COST							3.099		3.200		3.220										
INSTALLATION KITS NONRECURRING																					0.000
EQUIPMENT																					0.000
EQUIPMENT NONRECURRING																					0.000
ENGINEERING CHANGE ORDERS																					0.000
DATA																					0.000
TRAINING EQUIPMENT																					0.000
SUPPORT EQUIPMENT																					0.000
OTHER																					0.000
OTHER																					0.000
OTHER																					0.000
INTERIM CONTRACTOR SUPPORT																					0.000
INSTALL COST							3.500	1	1.500	1	1.500	5	7.600							7	14.100
TOTAL PROCUREMENT							6.599		4.700		17.600		7.600								36.499
						IT	EM NO.	33	PA	GE 39								CLAS	SIFICATION	ON: UNCL	ASSIFIED

CLASSIFICATION: UNC P3A (Continued)	CLASSIF	FIED		INDIVIDII	IAL MC	DIFICATI	ON (Ca	ntinuad	`																	
F3A (Continued)				INDIVIDO	AL IVIC	DIFICATI	ON (CC	munueu	,																	
MODELS OF SYSTEMS	AFFEC	TED: SSE	BN PHAS	SE II KITS		_ MOI	DIFICA	TION TIT	LE:		SSN	ACOU	ISTIC	S												
INSTALLATION INFORM	/ATION	:																								
METHOD OF IMPLEME			P ALT																							
ADMINISTRATIVE LEAD CONTRACT DATES:	OTIME: FY 200		N/A			PRODUC FY 2003:		LEADTIN N/A	ΛE:	-		12	Mon		2004:		2/04				FY 2005	٠.		2/05		
	FY 200		N/A			FY 2003:		N/A							2004.		2/04			_	FY 2005			2/05		
								-			<i>(</i> 2 : •		,							_			_			
Cost:	Pri	or Years				FY 2003		FY 2004	1		(\$ in N			Y 2006		FY	2007		FY 2008		FY 2009	П	To Co	mplete		Total
0001.	Qty	\$	Qty	\$	Qty		Qty			Qty	\$		Qty	\$	Qt		\$	Qty	\$	Qty	\$		Qty	\$	Qty	\$
PRIOR YEARS			+																				_		0	0.000
FY 2002 EQUIPMENT																							_		0	0.000
FY 2003 EQUIPMENT																									0	0.000
FY 2004 EQUIPMENT										1		1.500													1	1.500
FY 2005 EQUIPMENT													1	1.5	500										1	1.500
FY 2006 EQUIPMENT																5	7.600								5	7.600
FY 2007 EQUIPMENT																									0	0.000
FY 2008 EQUIPMENT																									0	0.000
FY 2009 EQUIPMENT																									0	0.000
TO COMPLETE																									0	0.000
INSTALLATION SCH	EDULE:																									
FY 2002		FY 200	<u>)3</u>		FY 2	2004		FY 2	<u>005</u>			FY 20	<u> 006</u>			200			FY 2008		<u>F</u>	<u>/ 200</u>	<u>)9</u>		<u>TC</u>	
& Prior	1	2 3	4	1	2	3 4	1	2	3	4	1	2	3	4		2 3		1	2 3	4	1 2	<u> </u>	3	4		TOTAL
In 0	0	0 0		0	1	0 0		0	1	0	0	1	0	0 (		2 2		0	0 1	0			0	0	0	9
Out 0	0	0 0	0	0	1	0 0	0	0	1	0	0	1	0	0 (	) 2	2 2	2 1	0	0 1	0	0 0	)	0	0	0	9
																					P-3/	^				
						ITEM I	NO. 33			PAG	E 40								CLASS	SIFICA	P-3 <i>F</i> TION: <b>UI</b>		ASSIF	FIED		

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFIC	ATION			
MODELS OF SYSTI	EM AFFECTED:	SSBN PHASE II - III KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUS	TIFICATION:					
726 A-RCI TA - SA	KITS; THE FUNDING	G CITED FOR FY2007 (\$1.354	M) IS FOR DESIGN SERVICE	ES (SHIPALY PACKAGE DEVELOPMENT)		
PROVIDES SPHER	RICAL ARRAY PASSIN	/E PROCESSING CAPABILIT	Υ			
DEVELOPMENT ST	ATUS/MAJOR DEVEL	OPMENT MILESTONES:				

	FY 2 QTY	2002 & Prior \$	-	<u>-</u> \$	<u>FY</u> QTY	2003 \$	<u>FY</u> QTY	<u>′ 2004</u> \$	<u>FY</u> QTY	2005 \$	<u>FY</u> QTY	<u>′ 2006</u> \$	<u>F\</u> QTY	<u>/ 2007</u> \$	<u>FY</u> QTY	<u>′ 2008</u> \$	<u>F\</u> QTY	<u>′ 2009</u> \$	QTY	TC \$	<u>TO</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)	QII	φ	QIT	Ψ	QIT	Φ_	QIT	Ψ	QIT	Ψ	QII	φ	QIT	Ψ	QIT	Φ	QIT	Φ	QII	Φ	QIT	φ
RDT&E																						0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS													1	7.600			4	31.400			5	39.000
INSTALLATION KITS - UNIT COST														7.600				7.850				
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST														1.354	1	2.800			4	11.400	5	15.554
TOTAL PROCUREMENT												0.000		8.954		2.800				11.400	-	23.154
	!!				1 1		ITEN	/ NO. 33	}	PA	GE 41	2.300				500		ļ.	CLAS	SIFICATION	N: UNCL	

ADMINISTRATIVE LEADTIME:   24 MOS   PRODUCTION LEADTIME:   12 Months   FY 2002: N/A   FY 2003: N/A   FY 2004: N/A   FY 2005:	
INSTALLATION INFORMATION:   SHIP ALT   ADMINISTRATIVE LEADTIME:   24 MOS   PRODUCTION LEADTIME:   12 Months   CONTRACT DATES:   FY 2002:   N/A   FY 2003:   N/A   FY 2004:   N/A   FY 2005:   N/A   FY 2005:   N/A   FY 2005:   N/A   FY 2006:   N/A   TY 2006:   N/A   TY 2006:   N/A   TY 2006:   N/A   TY 2006:   N	ed)
METHOD OF IMPLEMENTATION: SHIP ALT   ADMINISTRATIVE LEADTIME:   24 MOS   PRODUCTION LEADTIME:   12 Months   FY 2004: N/A   FY 2005: N/A   FY 2005: N/A   FY 2006: N/A   FY 2006: N/A   FY 2007: N/A   FY 2008: N/A   F	ITLE: SSN ACOUSTICS
CONTRACT DATES: FY 2002: N/A	
DELIVERY DATE: FY 2002: N/A   FY 2003: N/A   FY 2004: N/A   FY 2005: N/A	IME: 12 Months
Cost:   Prior Years   FY 2003   FY 2004   FY 2005   FY 2006   FY 2007   FY 2008   FY 2009   To Complete   Total	
Cost:	FY 2004: N/A FY 2005: N/A
Qty         \$	(\$ in Millions)
PRIOR YEARS  FY 2002 EQUIPMENT  FY 2003 EQUIPMENT  FY 2004 EQUIPMENT  FY 2005 EQUIPMENT  FY 2006 EQUIPMENT  FY 2007 EQUIPMENT  FY 2008 EQUIPMENT  FY 2008 EQUIPMENT  FY 2009 EQUIPMENT	
FY 2002 EQUIPMENT       0         FY 2003 EQUIPMENT       0         FY 2004 EQUIPMENT       0         FY 2005 EQUIPMENT       0         FY 2006 EQUIPMENT       0         FY 2007 EQUIPMENT       1         2008 EQUIPMENT       0         FY 2008 EQUIPMENT       0         0       0         6       0         0       0	\$   Qty   \$   Qty   \$   Qty   \$   Qty   \$   Qty   \$   Qty   \$   \$
FY 2003 EQUIPMENT         0           FY 2004 EQUIPMENT         0           FY 2005 EQUIPMENT         0           FY 2006 EQUIPMENT         0           FY 2007 EQUIPMENT         1           FY 2008 EQUIPMENT         0           FY 2008 EQUIPMENT         0           FY 2009 EQUIPMENT         0           0	0 0.00
FY 2004 EQUIPMENT       0         FY 2005 EQUIPMENT       0         FY 2006 EQUIPMENT       0         FY 2007 EQUIPMENT       1         2008 EQUIPMENT       0         0       0 </td <td></td>	
FY 2005 EQUIPMENT         0           FY 2006 EQUIPMENT         0           FY 2007 EQUIPMENT         1           2.800         1           FY 2008 EQUIPMENT         0           0         0.000           0         0.000           4         11.400           4         11.400           4         11.400	0 0.00
FY 2006 EQUIPMENT     0       FY 2007 EQUIPMENT     1       2.800     1       2.800     0       FY 2008 EQUIPMENT     0       0     0.000       0     0       4     11.400       4     11.400       4     11.400	0 0.00
FY 2007 EQUIPMENT         1         2.800         1         2           FY 2008 EQUIPMENT         0         0.000         0         0           FY 2009 EQUIPMENT         4         11.400         4         11	0 0.00
FY 2008 EQUIPMENT 0 0.000 0 0 FY 2009 EQUIPMENT 4 11.400 4 11	0 0.00
FY 2009 EQUIPMENT 4 11.400 4 1	1 2.800 1 2.80
	0 0.000 0 0.000
TO COMPLETE 0	4 11.400 4 11.40
INSTALLATION SCHEDULE:	
FY 2002         FY 2003         FY 2004         FY 2005         FY 2006         FY 2007         FY 2008         FY 2009         TC	
Out [ 0 ] [ 0 0 0 0 ] [ 0 0 0 0 ] [ 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
P-3A ITEM NO. 33 PAGE 42 CLASSIFICATION: <b>UNCLASSIFIED</b>	

CLASSIFICATION:	UNCLASSIFIED					
P3A		INDIVIDUAL MODIFIC	CATION			
MODELS OF SYSTE	EM AFFECTED:	SSBN PHASE III KITS	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUS	TIFICATION:					
726 A-RCI SA KITS	S; PROVIDES SPHE	RICAL ARRAY PASSIVE PRO	DCESSING CAPABILITY			
DEVELOPMENT ST	ATUS/MAJOR DEVEL	OPMENT MILESTONES				

112	002 & Prior	_	_		2003	<u>FY</u>	′ <u>2004</u>	FY	2005	<u>FY</u>	′ <u>2006</u>	<u>F`</u>	Y 2007	FY	′ <u>2008</u>	<u>F\</u>	<u> 2009</u>		<u>TC</u>	<u>TO</u>	<u>TAL</u>
QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
																				0	0.000
												2	21.200			1	11.000	1	11.100	4	43.300
													10.600				11.000		11.100		
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
																				0	0.000
																					0.000
																					0.000
																					0.000
																					0.000
																					0.000
														2	5.200			2	5.400	4	10.600
													21.200		5.200				16.500		42.900
	QTY	QTY \$	QTY \$ QTY	QTY \$ QTY \$	QTY \$ QTY \$ QTY	QTY \$ QTY \$ QTY \$			QTY \$ QTY \$ QTY \$ QTY \$ QTY					2 21.200 10.600	2 21.200 10.600	2 21.200 10.600 10.600 2 2 5.200 2 5.200	2 21.200 1 1 10.600 1 1 10.600 1 1 10.600 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 21.200 1 11.000 10.600 11.000	2 21.200	QTY         \$	QTY         \$

CLASSIFICATIO	N: UNC	LASSIF	IED																										
P3A (Continued)					INDIVID	UAL N	MODIF	CATIO	N (Co	ntinue	ed)																		
MODELS OF SY	STEMS	AFFEC <sup>°</sup>	TED: SS	BN PHAS	SE III KI	ΓS		MODII	FICAT	ION T	TTLE:		SS	SN ACC	USTI	cs									=				
INSTALLATION I METHOD OF IMI ADMINISTRATIV CONTRACT DAT DELIVERY DATE	PLEMEN /E LEAD ΓES:	IOITATIO	N: <b>SH</b> 24 MO 2:				FY	ODUCT 2003: 2003:	ION L	EADT N/A N/A	IME:			12 	Mon		FY 20 FY 20		N/A N/A			_ _	FY 20 FY 20			N/A N/A			
												_	<u>, , </u>	n Million				_											
Cost:		Qtv	or Years	Qty	\$	0	FY 2	003 \$	Qtv	FY 20	04 \$	Qty	Y 2	005 \$	Qty	Y 20	\$ \$	Qty	Y 2007 \$	Qty	FY 2008 \$	Qtv	FY 200		To Co Qty	_	ete \$	Qty	Total \$
PRIOR YEARS		<u> </u>		Qiy	Ψ	<u> </u>	y	Ψ	Qty		Ψ	Qty		Ψ	Qty		Ψ	Qiy	Ψ	Qty	Ψ	Qiy	,	<u>'</u>	Qty	•	Ψ	0	0.00
FY 2002 EQUIP																												0	0.00
FY 2003 EQUIP																												0	0.00
FY 2004 EQUIP	PMENT																											0	0.00
FY 2005 EQUIP	PMENT																											0	0.00
FY 2006 EQUIP	PMENT																											0	0.00
FY 2007 EQUIP	PMENT																			2	5.200	)						2	5.20
FY 2008 EQUIP	PMENT																											0	0.00
FY 2009 EQUIP	PMENT																								1		2.700	1	2.70
TO COMPLETE																									1		2.700	1	2.70
INSTALLA <u>TIO</u>	N SCHE	DULE:																											
FY	2002		FY 20	003		<u>F\</u>	<u>/ 2004</u>			FY	2005			FY 2	2006			FY 20	007		FY 2008			FY 20	<u> 109</u>			<u>TC</u>	
8	R Prior	1		3 4			2 3	4	1	2	3	_ 4	1	2	3	4	1	2		1	2 3	4	1	2	3	4			TOTAL
In Out	0	0	-	0 0			0 0	0 0	0	0	0	0	0		0	0	0	0	0 0	0	1 1 1 1	0	0	0	0	0		2 2	4 4
Out	U		0 (	) 0		, ,	0 0	U		- 0	U	U	0	0	U	U	- 0	- 0	0 0		1 1	0	0	U		U			4
																							-	0.4					
																							Ρ.	-3A					

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED					
РЗА	INDIVIDUAL MODIFICAT	TION			
MODELS OF SYSTEM AFFECTED:	SSGN PHASE IV KITS (SA104)	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS
DESCRIPTION/JUSTIFICATION:					
SSGN CONVERSION; THE INSTALLATI	ON FUNDING CITED IN FY 200	4 AND FY 2005 IS FOR DE	SIGN SERVICES (SHIPALT PACKAGE DE	VELOPMENT).	

PROVIDES A-RCI Phase I-IV ON SSGN CONVERSIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2 QTY	2002 & Prio \$	o <u>r</u> QTY	_ _	<u>FY</u> QTY	2003 \$	<u>FY</u> QTY	2004 \$	<u>FY</u> QTY	<u>2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>F\</u> QTY	<u>2007</u>	<u>FY</u> QTY	<u>2008</u> \$	<u>FY</u> QTY	<u>2009</u>	QTY	TC \$	<u>]</u> QTY	TOTAL \$
FINIANCIAL DI AN (INIAII LIONE)	QIY	<b>*</b>	QIY	ъ	QIY	Ф	UIY	Ф	QIY	<b>\$</b>	QIY	<b></b>	QIY	Ф	QIY	<b></b>	QIY	<b></b>	QIY	Ф	QIY	Ф
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.000
<u>PROCUREMENT</u>																						
INSTALLATION KITS									2	31.000	2	31.000									4	62.000
INSTALLATION KITS - UNIT COST										15.500		15.500										
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																					0	0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST								1.000		0.500	2	7.000	2	7.000							4	15.500
TOTAL PROCUREMENT								1.000		31.500	05.45	38.000		7.000								77.500

<b>CLASSIFICAT</b>		LASSIF	IED																										
P3A (Continue	ed)				IN	IDIVIDU	AL MO	DIFICAT	TION	(Cor	ntinued)																		
MODELS OF	SYSTEMS	AFFEC	TED: S	SGN	PHASE	IV KITS		_ MC	DIFI	ICATI	ON TITLE	i:		SSN ACC	UST	ICS										_			
INSTALLATION METHOD OF	IMPLEMEN	ITATIO	N: SF		LT																								
ADMINISTRA											EADTIME:	:	_	12	Mor			_											
CONTRACT		FY 20			N/A			FY 200			N/A						FY 200		N/A				_		2005:		3/05		
DELIVERY DA	ATE:	FY 20	02:	_	N/A			FY 200	3:		N/A						FY 200	04:	N/A				_	FΥ	2005:		3/06		_
														in Millions	)														
Cos	t:		or Years					FY 2003			Y 2004			Y 2005		FY 20			Y 2007			Y 2008			2009		omplete		Total
		Qty	\$		Qty	\$	Qty	\$		Qty	\$	Qt	ty	\$	Qty		\$	Qty	\$	C	Qty	\$	Qty		\$	Qty	\$	Qty	\$
PRIOR YEA	RS																											0	0.000
FY 2002 EQ	UIPMENT																											0	0.000
FY 2003 EQ	UIPMENT																											0	0.000
FY 2004 EQ	UIPMENT																											0	0.000
FY 2005 EQ	UIPMENT														2		7.000											2	7.000
FY 2006 EQ	UIPMENT																	2	7.0	00								2	7.000
FY 2007 EQ	UIPMENT																											0	0.000
FY 2008 EQ	UIPMENT																											0	0.000
FY 2009 EQ	UIPMENT																											0	0.000
TO COMPLE	ETE																												
INSTALLA <sup>*</sup>	TION SCHE	DULE:																											
	FY 2002		FY 20	003			FY 2				FY 200	<u>5</u>		FY 2	2006			<u>FY 2</u>				FY 2008			FY 2			<u>TC</u>	
	& Prior	1		3	4	1			1	1	2 3		4	1 2	3		1		3 4	_  -	1	2 3	4	1		3			TOTAL
In	0	0		0	0	0			)	0	0 0		0	0 1	1	0	0	-	1 1		0	0 0	0			0	0	0	4
Out	0	0	0	0	0	0	0	0 (	)	0	0 0	(	0	0 1	1	0	0	0	1 1	ШL	0	0 0	0	0	0	0	0	0	4
																									P-3A				
								ITEM	NO.	. 33		P/	<b>AGE</b>	<del>-</del> 46								CLAS	SIFIC	CATI	ON: UN	ICLA	SSIFIED		

CLASSIFICATION:	UNCLASSIFIED

P3A	INDIVIDUAL MODIFIC	ATION			
MODELS OF SYSTEM AFFECTED:	OA-9070 A/B UPGRADE	TYPE MODIFICATION:	SHIP ALT	MODIFICATION TITLE:	SSN ACOUSTICS

DESCRIPTION/JUSTIFICATION:

PROVIDES NECESSARY TECHNICAL CONVERSION TO ACCOMMODATE TB-29 SERIES ARRAYS

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2	001 & Prior	<u>F</u>	2002		2003		2004		<u> 2005</u>	_	2006		<u> 2007</u>	_	2008		2009		<u>TC</u>	]	<u> TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS	15	10.650	7	4.788	5	2.750	5	2.800	1	0.570	0	0.000	0	0.000							33	21.558
INSTALLATION KITS - UNIT COST		0.710		0.684		0.550		0.560		0.570		0.000		0.000								0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT	1	0.669																			1	0.669
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST	10	17.085	5	7.905	7	9.613	9	15.879	2	4.734	1	2.530	0	0.000	0	0.000					34	57.746
TOTAL PROCUREMENT		27.735		12.693		12.363		18.679		5.304		2.530		0.000		0.000				0.000		79.304 JNCLAS

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED	INDIVIDUAL MODIFICAT	70.W		
P3A	INDIVIDUAL MODIFICAT	ION		
MODELS OF SYSTEM AFFECTED:	OK-542 TB-29 Conversion	TYPE MODIFICATION:	SHIP ALT	SSN ACOUSTICS
DESCRIPTION/JUSTIFICATION:				
PROVIDES NECESSARY TECHNICAL	L CONVERSION TO ACCOMMODA	ATE TB-29 SERIES ARRAYS		
DEVELOPMENT STATUS/MAJOR DEV	ELOPMENT MILESTONES:			

		001 & Prior		2002		2003		2004	<u>F</u>	<u> 2005</u>		<u>/ 2006</u>		2007		2008		<u> 2009</u>		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
<u>PROCUREMENT</u>																						0.000
INSTALLATION KITS													1	0.575	6	3.522	6	3.528			13	7.625
INSTALLATION KITS - UNIT COST																0.587		0.588				0.000
INSTALLATION KITS NONRECURRING																						0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																						0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST													AP	0.684	1	1.679	6	9.000	6	9.411	13	20.774
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.000		1.259		5.201		12.528		9.411		28.399

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CLASSIFICATION: UNCLASSI

CLASSIFICATION: UNCLASSIFIED  234 (Continued) INDIVIDUAL MODIFICATION (Continued)																										
P3A (Continued) INDIVIDUAL MODIFICATION (Continued)																										
MODELS OF SYSTEMS AFFECTED: OK-542 TB-29 Conversion								ICATI	ON TITLE:		SSN ACOUSTICS												_			
MATIC	ON:																									
NTAT	ION:	SHIP A	LT																							
ADMINISTRATIVE LEADTIME: 24 MOS								ON LE		_	6-9 Months															
DELIVERY DATE: FY 2002:			N/A			FY 2003: <u>N/A</u>			N/A	<u>t</u>			FY 20			04: <u>N/A</u>			FY 2005:					N/A		
											(\$ in	Millions	s)													
				FY2002							FY2005		FY2006		FY 2007			FY 2008			FY 2009				Total	
Qty		\$	Qty	\$	Qty	/ \$	i	Qty	\$	Qty		\$	Qty	\$	Qty	\$		Qty	\$	Qty	/ \$	3	Qty	\$	Qty	\$
																									0	0.000
																									0	0.000
																									0	0.000
																									0	0.000
																									0	0.000
																									0	0.000
															AP	0.0	684	1	1.679						1	2.363
																				6	9.00	0			6	9.000
																									0	0.000
																							6	9.411	6	9.411
IEDUL	.E:																				_					
	_	Y 2002	:						FY 2004															!	<u>TC</u>	
1		3	4	.   1			4	1			1			4 1			_	1			<del>+  </del>			4		TOTAL
		0	-				-		-					- III -			-					1	-	-		13
0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0 (	)	0	0	0 0	0	1	0	0	12	13
																						_				
ITEM NO 33 PAGE											E 50								С	LASSII	FICATI			ASSIFIE	ĒD.	
	S AFFI MATIC ENTATI DTIME FY FY Qty	MATION: ENTATION: ENTATION: DTIME: 24 N FY 2002: FY 2002:  FY 2001 8 Qty  HEDULE:  1 2 0 0	S AFFECTED: OK-5  MATION: SHIP A  DTIME: 24 MOS     FY 2002:     FY 2001 & Prior     Qty \$  HEDULE:     FY 2002     1 2 3     0 0 0	S AFFECTED: OK-542 TB  MATION: ENTATION: SHIP ALT  DTIME: 24 MOS FY 2002: N/A FY 2002: N/A  FY 2001 & Prior Qty \$ Qty  HEDULE:  FY 2002 1 2 3 4 0 0 0 0 0	S AFFECTED: OK-542 TB-29 Conv   MATION:   SHIP ALT     DTIME: 24 MOS   FY 2002:   N/A     FY 2001 & Prior   FY2002     Qty   \$ Qty   \$	S AFFECTED: OK-542 TB-29 Conversion	NA   S   AFFECTED: OK-542 TB-29 Conversion   MODIFICATION (Continued)	S AFFECTED: OK-542 TB-29 Conversion	S AFFECTED: OK-542 TB-29 Conversion	SAFFECTED: OK-542 TB-29 Conversion	SAFFECTED: OK-542 TB-29 Conversion	SAFFECTED: OK-542 TB-29 Conversion	SAFECTE_D: OK-542 TB-29 Conversion   MODIFICATION TITLE:   SSN ACOUSTICS	SAFECTED: OK-542 TB-29 Conversion   MODIFICATION (TITLE: SSN ACOUSTICS	SAFECTED: OK-542 TB-29 Conversion   MODIFICATION TITLE:   SSN ACOUSTICS	SAFFECTED: OK-542 TB-29 Conversion   MODIFICATION TITLE:   SSN ACOUSTICS	SAFFECTED: OK-542 TB-29 Conversion	SAFFECTED: OK-542 TB-29 Conversion	SAFFECTED: OK-542 TB-29 Conversion	NDIVIDUAL MODIFICATION (Continued)   SAFFECTED: OK-542 TB-29 Conversion	NDIVIDUAL MODIFICATION (Continued)   SAFFECTED: OK-542 TB-29 Conversion	NDIVIDUAL MODIFICATION (Continued)   SAFFECTED: OK-542 TB-29 Conversion   MODIFICATION TITLE:   SSN ACOUSTICS	NOTIFICATION   Continued			

INDIVIDUAL MODIFICATIO	N		
Fiber Optic Receiver/Signal Path	TYPE MODIFICATION:	SHIP ALT	SSN ACOUSTICS
. CONVERSION TO ACCOMMODATE	E FIBER OPTIC ARRAYS		
ELOPMENT MILESTONES:		<u> </u>	
	Fiber Optic Receiver/Signal Path  CONVERSION TO ACCOMMODATE	CONVERSION TO ACCOMMODATE FIBER OPTIC ARRAYS	Fiber Optic Receiver/Signal Path TYPE MODIFICATION: SHIP ALT  CONVERSION TO ACCOMMODATE FIBER OPTIC ARRAYS

		001 & Prior		2002		2003		2004		2005		2006		2007		2008		2009		TC .	_	<u> TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.000
PROCUREMENT																						0.000
INSTALLATION KITS													1	1.434	7	10.241	8	11.936			16	23.611
INSTALLATION KITS - UNIT COST													'	1.434		1.463		1.492			10	0.000
INSTALLATION KITS NONRECURRING														1.101		1.100		1.102				0.000
EQUIPMENT																						0.000
EQUIPMENT NONRECURRING																						0.000
ENGINEERING CHANGE ORDERS																						0.000
DATA																						0.000
TRAINING EQUIPMENT																					0	0.000
SUPPORT EQUIPMENT																						0.000
OTHER																						0.000
OTHER																						0.000
OTHER																						0.000
INTERIM CONTRACTOR SUPPORT																						0.000
INSTALL COST															1	0.950	7	6.783	8	8.160	16	15.893
TOTAL PROCUREMENT		0.000		0.000		0.000		0.000		0.000		0.000		1.434		11.191		18.719		8.160		39.504

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CLASSIFICATION: UNCLASSIF

CLASSIFICATION	I: UNC	LASS	IFIED																													
P3A (Continued)						INDI	IVIDUA	AL MO	DIFICA	TION	l (Cor	ntinue	d)																			
MODELS OF SYS	STEMS	AFFE	CTE <u>D</u>	: Fiber	Optic	Rece	eiver/Si	ignal F	ath			N	/ODIFI	CATIO	TIT NC	LE:	-	SSN	ACOUST	rics								_				
INSTALLATION IN METHOD OF IMP ADMINISTRATIVE CONTRACT DATE DELIVERY DATE:	LEMEN E LEAD ES:	ITATIO	ON: <b>\$</b> 24 M 002:		N/A N/A	- -			PRODI FY 200 FY 200	03:	ON LE	EADTI N/A N/A	ME:	-		18	Mon		FY 2004 FY 2004			N/A N/A					FY 2005: FY 2005:		N/A N/A			_
Cost:		FY 20	ገበ1 ደ	Drior		FY20	102	1 1	FY 2003	2		FY200	74	1		\$ in Mi 2005	llions)		′2006	1	FY 20	207	1	FY 2008	1		FY 2009	Iτο	Compl	oto		Total
Cost.		Qty		\$	Qty	120	\$	Qty	\$		Qty		\$	Qty		\$	Qty	г	\$	Qty		\$	Qty	\$		Qty	\$	Qt		\$	Qty	\$
PRIOR YEARS																															0	0.000
FY 2002 EQUIPM	MENT																														0	0.000
FY 2003 EQUIPM																															0	0.000
FY 2004 EQUIPM																															0	0.000
FY 2005 EQUIPM																															0	0.000
FY 2006 EQUIPM	MENT																														0	0.000
FY 2007 EQUIPM	MENT																						1	0	.950						1	0.950
FY 2008 EQUIPM	MENT																									7	6.78	33			7	6.783
FY 2009 EQUIPM	MENT																												8	8.160	8	8.160
TO COMPLETE																																
INSTALLATION	N SCHE	DULE	:																													
FY 2	2001		<u>F`</u>	<u> 2002</u>				FY 2	2003			FY	2004			FY 2	<u> 2005</u>			FY 2	2006			FY 20	07		FY	2008			<u>TC</u>	
&	Prior	1	2	3	4	-	1	2		4	1	2	3	4	1	2	3	4	1	2	3	4	1		3	4	1 2	3	4			TOTAL
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TB-29A Array/TBD	2004	C N	Y 4	2	L 2	Т	7 1	<u>C</u>	N	R F		P '	· ·	N	Ü	G	D	Ŧ	V	C	N R	P	)   F		X N	Ļ	6	<u> </u>	0
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DD Form 2445, JUL 87 P-1 SHOPPING LIST Previous editions are obsolete ITEM NO 33 PAGE 53 311 / 244

<b>BUDGET PRODUCTION SCHEDULE, P-2</b>	<u>?</u> 1														DA						200					
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DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311/244 ITEM NO 33 PAGE 54 Exhibit P-21 Production Schedule

BUDGET PRODUCTION SCHEDULE, P-2	<u>21                                    </u>																DATE						/ 200						
APPROPRIATION/BUDGET ACTIVITY											\	Wea	pon	Sys	tem		P-1	ITE	M۱	<u>10</u> 1	ЛEN	1CL	ĀTL	JRE					
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ITEM / MANUFACTURER  TB-16 Next Generation- TBD	•						N		JF	A	C	ALEN	J	J	А		O C T		D E C	J	FISC	CAL	А		EAR 2	J		5 E p	

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311/244 ITEM NO 33 PAGE 55 Exhibit P-21 Production Schedule

# **UNCLASSIFIED**

			BUD	GET ITEM .	JUSTIFICAT	ION SHEET					DATE:	
					P-40						Februa	ry 2004
APPROPRIATION/BUDGE							P-1 ITEM NO	MENCLATURE				
Other Procurement, N	Navy/Comm	nunicati	ons & Elect	ronics Equi	pment, BA-2	2			UUV Progra	m Ll#21710	0	
Program Element for Code	B Items:						Other Related	Program Elem	ents			
	Prior	ID									То	Total
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		Complete	Program
QTY LMRS	N/A	В	N/A	0	2	2	2	2	2		N/A	N/A
COST (\$M)	0.0		0.0	0.0	61.3	49.0	63.3	63.5	64.4		Cont.	Cont.
Initial Spares (\$M)	0.0		0.0	0.0	4.2	3.9	3.3	3.6	3.2		Cont.	Cont.
TOTAL (\$M)	0.0		0.0	0.0	65.5	52.9	66.6	67.1	67.6		Cont.	Cont.

### ITEM DESCRIPTION/JUSTIFICATION:

The UUV project funds the procurement of the AN/BLQ-11 Long-Term Mine Reconnaissance System (LMRS) to provide a robust, long-term Fleet capability to conduct clandestine minefield reconnaissance. The system will use an advanced sensor suite to autonomously detect and classify mine like objects. The vehicle is 21 inches in diameter and is launched and recovered through an SSN torpedo tube. The system is designed as a carry on, carry off system for employment on both SSN 688 and Virginia Class submarines. A quantity of 12 LMRSs will be procured beginning in FY05. Commencing in FY07 Pre Planned Product Improvements (P3I) will be introduced to the production buy.

P-1 SHOPPING LIST

**UNCLASSIFIED** 

CLASSIFICATION:

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**UNCLASSIFIED** 

	WEAPONS SYST	EM COST A	NALYSIS			Weapon Syst	em							DATE:	ary 2004
Other Pro	RIATION/BUDGET ACTIVITY ocurement, Navy communications and Electronics		nt			ID Code		MENCLATURE	SUBHEAD					rebrua	ary 2004
DA-2. C	diminumentons and Electronics	Lquipine	TOTAL COS	T IN THOUSA	NDS OF DOLL	ARS	OUV Flogi	a1117720V							
COST CODE	ELEMENT OF COST	ID Code				2002		FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
UV001 UV011 UV830 UV840	N77 Hardware Support equipment Prod Eng (In-house) Acceptance T & E Consulting Services	B B B B B											2	17,000.00	34,000 15,000 10,161 2,000 92
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Page 2

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BUDGET PROCURE	EMENT HISTO	ORY AND	PLANNING EXHI	BIT (P-5A)		Weapon System		A. DATE		
B. APPROPRIATION/BUDG	SET ACTIVITY				C. P-1 ITEM NO	MENCLATURE			February 20	)04
Other Procurement BA-2: Communic	, Navy	Electroni	cs Equipment		UUV Progr				72	:UV
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY2005 LMRS	2	17,000	NAVSEA	Jan-05	SSFFP	Boeing Anaheim, CA	Jan-05	Jul-06	No	NA
D. REMARKS										

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						Pro	ducti	on R	ate																				
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2005			U																										2
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F	S	Q	D	В	2	003						CALEN	NDAR	YEAR	2004							CA	LENE	DAR Y	EAR 20	005			i
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\*FY05 units will deliver in July FY06 and August FY06.

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	BUDO	GET ITE	M JUSTIFICA	ATION SHEE	Т		DATE:					
			P-40						FEBRU <i>A</i>	ARY 2004		
APPROPRIATION/BUD	GET ACTIVIT	ΓΥ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCUREM	ENT, NAVY	BA-2 CC	MMUNICATIO	ONS & ELECT	RONIC EQUIP	MENT	UNDERSEA V	WARFARE SU	IPPORT EQUI	PMENT (21760	00/217605) A2	2VM
Program Element for Co	ode B Items:						Other Related I	Program Eleme	nts			
	Prior	ID								То		
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total	
QUANTITY												
COST												
(In Millions)			\$13.4	\$11.6	\$14.1	\$14.5	\$12.3	\$13.0	\$6.7	Cont.	Cont.	
SPARES COST												
(In Millions)												

### Space Information Command and Control Programs (N61)

#### Common Undersea Picture (CUP)

The Common Undersea Picture (CUP) provides the Fleet with capabilities for significantly improved USW sensor and tactical situational awareness for own ship and own force vulnerability, as well as automated USW contact and information fusion, net based connectivity and collaboration, and computer aided mission planning and assessment. CUP will provide the Sea Combat Commander (SCC) with an expanded net-centric USW toolset reaching across all surface and submarine Expeditionary Strike Force (ESF) USW platforms as well as supporting USW shore nodes, theater assets, and aircraft. Funding identified provides for the procurement and installation of CUP capability on ESF platforms and supporting shore nodes as permanent alterations, and will support periodic technology refresh of CUP hardware/software to keep capabilities concurrent with leading COTS technology.

## Surface Programs (N76)

#### **Surface Sonar Windows and Domes**

AN/SQS-26/53 Sonar Dome Rubber Windows (SDRW) are installed in CG47, DDG51, and DD963 class ships. This program provides emergency replacement wire-reinforced, pressurized rubber acoustic windows which experience failure due to corrosion, fatigue, and impact in the splice region. The SDRW significantly improves the surface ship sonar performance by reducing flow-induced self-noise, and by providing increased source level receiving and sensitivity resulting from reduced attenuation. AN/SQS-56 Sonar Rubber Domes (SRD) are installed in FFG7 class ships. This program provides emergency replacement SRD for AN/SQS-56 active/passive duct sonar systems. Production engineering support provides technical evaluation, failure analyses, implementation of the inwater one-side backscatter xray program, GFE refurbishments, and field service engineering.

## **Surface Ship Torpedo Defense**

The Surface Ship Torpedo Defense (SSTD) System consists of the AN/SLQ-25A NIXIE towed torpedo countermeasure. The SSTD system enhances ship survival capability against advanced acoustic and non-acoustic homing torpedoes. The AN/SLQ-25A Nixie is in the Countermeasure Passive Subsystem of the SSTD System. The AN/SLQ-25A projects decoy signals into the water via a towed body deployed astern of the ship. The projected signals are generated by a transmitter located on the ship which is controlled by an operator. FY 02/03/04 Congressional plus-ups were authorized to procure AN/SLQ-25A towed torpedo defense countermeasure improvements (i.e. an enhanced EC-16, improved tow cable and COTS signal generator as well as reliability mods). This effort will provide enhanced reliability and performance against evolving threat torpedoes and enhanced operation of the AN/SLQ-25A in shallow littoral waters.

P-1 SHOPPING LIST CLASSIFICATION:

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# **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET	]	DATE:
P-40		FEBRUARY 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	UNDERSEA WARFARE SUP	PPORT EQUIPMENT (217600/217605) A2VM
Program Element for Code B Items:	Other Related Program Elements	3

### **Submarine Programs (N77)**

#### **Acoustic Communications**

Acoustic Communications provides two-way and one-way acoustic communications equipment for submarines and surface ships. The equipment consists of : (1) AN/WQC-2/2A, a stand alone, single side band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and some shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface ASW ships to attack submarines when interfaced with the AN/SQS-26/53 and AN/BQQ-5; (3) AN/BQC-1(), a stand-alone emergency voice and signal beacon for submarines, and (4) technical improvements (Engineering Changes) to acoustic communication equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A Engineering Changes plus associated production engineering support and consulting services for the SSN 21, SSN 637, SSN 688, SSBN 726, DD963, DDG 51, CG 47, MHC 51, MCM 1, CVN 65, ARS 50, FFG 7, and CVN 68 class ships and submarines.

## Aircraft Carrier Programs (N78)

#### Aircraft Carrier Tactical Support Center (CV-TSC)

The CV-TSC of the Carrier Combat Direction System (CDS) is the focal point of supply for force ASW/SUW functions. The system supports the multi-mission, tactical deployment of embarked airborne weapon systems (S-3B and SH-60 Helicopters) by providing mission planning, in-flight support and post mission assessment/intelligence collection. CV-TSC provides real time and post mission analysis of relayed or taped acoustic and non-acoustic signals to support CV/CVN USW Self Defense. The system consists of digital computers, commercial workstation displays, mass memories, plotters, acoustic analysis equipment and interface devices. The CV-TSC furnishes timely evaluated USW and SUW information to the Officer in Tactical Command as inputs to the decision making process. Procurement of non-developmental engineering changes to maintain system IT-21 supportability and interoperability with embarked aircraft, airborne sensors, and shipboard interfaces will continue. Naval Undersea Warfare Center (NUWC), Division Keyport has been designated as the Alteration Installation Team (AIT) for all items. Installations will be accomplished at NUWC, the CV-TSC training site at Fleet Combat Training Center Atlantic (FCTCL) Dam Neck, VA, CV-TSC Ashore training site, and on board CV-63 through CVN-75. FY 02/03 Congressional plus-ups were authorized to provide additional Surface Network Embedded Analysis and Tactical Trainer (SNEATT) and Common Airborne Undersea Sensor Software (CAUSS) capabilities that will be integrated into CV-TSC systems. This effort will enhance operator and maintenance training, improve USW signal detection capabilities, and provide battle group USW platform interoperability.

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 Item No. 35 Page No. 2

**UNCLASSIFIED** 

BUDGET ITEM JUSTIF	ICATIO		FOR AGGREG	ATED ITEMS	DATE:			BRUARY 20	10.4		
A DDD O DDIATION (D) ID OFT A OTIV (IT)			P-40a			D 4 ITEM NO	AENIOL ATUBE	Г	DRUART 20	04	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NO	MENCLATURE				
OTHER PROCUREMENT, NAVY BA-	2 COMI	MUNICA	ATIONS & ELE	CTRONIC EQ	UIPMENT	UNDERSEA	WARFARE SU	PPORT EQUI	PMENT (21760	00/217605) A2	VM
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
1 Todardinona Romo	0000	1 00.10	2000	200 .	2000	2000	200.	2000	2000	Complete	
Space Information Command and Control Programs (N61)											
COMMON UNDERSEA PICTURE (CUP)	Α		_	_	1,743					cont.	cont.
- Hardware	Α		-		(1,743)					cont.	
- Haluwale				-	(1,743)					COIIL.	cont.
SUB-TOTAL			-	-	1,743					cont.	cont.
365 . 577.12					.,					5511.1	00.11.
Installation Support	Α		-	-	6,227					cont.	cont.
Surface Ship Programs (N76)											
	Λ.		E 077	E 000		<del>                                     </del>	<del>                                     </del>			cont	cont
SSTD	Α		5,977	5,906	-	<del>                                     </del>	<del>                                     </del>			cont.	cont.
- Hardware			(5,977)	(5,906)	-	<del>                                     </del>	<del>                                     </del>			cont.	cont.
SUB-TOTAL			5,977	5,906	_	1	<del>                                     </del>			cont.	cont.
SUB-TUTAL			5,977	5,906	-	+	<del>                                     </del>			COIIL.	COIII.
SQS-26/53 SDRW	Α		2,723	4,383	4,808						
- Hardware			(1,651)	(3,260)	(3,633)		<u> </u>			cont.	cont.
- Production Engineering			(1,072)	(1,123)	(1,175)					cont.	cont.
- 1 Toddetion Engineering			(1,072)	(1,120)	(1,170)					cont.	cont.
SUB-TOTAL			2,723	4,383	4,808					cont.	cont.
			=,:==	.,,	.,,,,,					001114	
Submarine Programs (N77)											
ACOUSTIC COMMUNICATIONS	Α		322	323	330						
- Hardware			(256)	(273)	(283)					cont.	cont.
- Production Engineering			(66)	(50)	(47)					cont.	cont.
Consulting Services	Α		50	70	70					cont.	cont.
SUB-TOTAL			372	393	400					cont.	cont.
Aircraft Carrier Programs (N78)											
CV-TSC EC Production Engineering	Α									cont.	cont.
CV-TSC SNEATT	Α		3,188							cont.	cont.
- Hardware			(2,688)								
- Production Engineering	_		(500)			-	-				4
TACT COMP DATA LINK	Α		197			ļ				cont.	cont.
- Hardware			(137)	-		<del>                                     </del>	1				
- Production Engineering SQQ-34A(V)5 CV-TSC	Α.		(60)	775	722	<del>                                     </del>	1			0074	204
	Α		764			<del>                                     </del>	1			cont.	cont.
- Hardware			(670)	(680)	(668)	<del>                                     </del>	1				
- Production Engineering	^		(94)	(95)	(54)	<del>                                     </del>	<del>                                     </del>			a a m t	2004
Helo Link Controllers - Hardware	Α	<b> </b>		-		-	<del> </del>			cont.	cont.
EC Technical Insertion	Α			+						cont.	cont.
- Hardware	A					-	-			COIIL.	COIIL.
- Production Engineering				+							
Consulting Services	Α		81	20	20	<del> </del>	1			cont.	cont.
Consulting Services	Α		01	20	20	1	<del>                                     </del>			COIIL.	COIII.
SUB-TOTAL			4,230	795	742	<del> </del>				cont.	cont.
332 101/12			.,		. 12	1	1				
Installation Support	Α		130	144					cont.	cont.	
					196						
GRAND TOTAL			13,432	11,621					cont.	cont.	
			•	•						•	

CLASSIFICATION: UNCLASSIFIED ltem No. 35 Page No. 3

**UNCLASSIFIED** CLASSIFICATION:

	WEAPONS SYSTEM		IALYSIS			Weapon Sy	stem							DATE:	
∧ DDD ∩ D	P-5 RIATION/BUDGET ACTIVITY					ID Code	D 1 ITEM N	OMENICI ATLI	RE/SUBHEAD	,				FEBRUA	RY 2004
	ocurement, Navy / BA-02										PMENT (21	7600/21760	05) A2VN	1	
			TOTAL COS	T IN THOUS	SANDS OF DO								-		
COST	ELEMENT OF COST	ID	FY 2002					FY 2003			FY 2004			FY 2005	
CODE		Code	and Prior Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
VM101	Surface Ship Torpedo Defense (SSTD) (Congressional Add)	A							5,977			5,906			
VM201	Acoustic Communications (ACOMMs)	А							256			273			283
VM301	Aircraft Carrier Tactical Support Center (CV-TSC)	А							137			680			668
VM319	CV-TSC SNEATT (FY 03 Congressional Add)	А							3,188						
VM329	CV-TSC AN/SQQ-34A(V)5	А							670						
VM401	Surface Sonar Windows and Domes	А							1,651			3,260			3,633
VMTBD	Common Undersea Picture (CUP)	А													1,743
VM832	Production Support (ACOMMs)								66			50			47
VM833	Production Support (CV-TSC)								154			95			54
VM834	Production Support (Domes)								1,072			1,123			1,175
VM902	Consulting Services (ACOMMs)								50			70			70
VM903	Consulting Services (CV-TSC)								81			20			20
VM128	Installation (CV-TSC)								130			144			196
VMTBD	Installation (CUP)														6,227
	2446, JUN 86		OPPING LIST						13,432			11,621 CLASSIFICA			14,116

DD FORM 2446, JUN 86 P-1 SHOPPING LIST ITEM NO. PAGE NO.

**UNCLASSIFIED** 

# **UNCLASSIFIED**

BUDGET PROCURE	EMENT HISTO	DRY AND I	PLANNING EXHIBIT	Г (Р-5А)		Weapon System		A. DATE		
								•	EBRUARY 2	004
B. APPROPRIATION/BUDG	ET ACTIVITY				C. P-1 ITEM NOM	IENCLATURE			SUBHEAD	
		_			LINDEDOE	WAREARE OURRO	DT E0111	DATA		
Other Procurement	, Navy / BA-0	2		Т	CONTRACT	WARFARE SUPPO	RIEQUI	DATE OF	SPECS	VM DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
FY 2003										
N/A										
FY 2004										
NI/A										
N/A										
FY 2005										
N/A										
IN/A										
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST PAGE NO. Classification:

ITEM NO. 35 5 UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED P3A	INDIVIDU	AL MOI	DIFICA	NOITA																		
MODELS OF SYSTEM AFFECTED:					_	TYPE N	ODIFIC	CATION:	:				MOE	DIFICATI	ION TI	TLE:			Surf	ace Ship To	orpedo Defe	ense (SSTI
DESCRIPTION/JUSTIFICATION:																						
The Surface Ship Torpedo Defense (SSTD) S																						
homing torpedoes. The AN/SLQ-25A Nixie is The projected signals are generated by a trar																						
countermeasure improvements (i.e. an enhar	nced EC-16,	improve	ed tow	cable	and CC																	
torpedoes and enhanced operation of the AN	/SLQ-25A ir	shallow	v littora	al wateı	rs.																	
DEVELOPMENT STATUS/MAJOR DEVELOP	MENT MILE	STONE	S:	N/A																		
	FY 2002	% Prior	r		F۱	2003	FY	2004	F۱	Y 2005	FΥ	2006	F١	/ 2007	FΥ	2008	F١	2009	To C	Complete	TO	TAL
	QTY				QTY		QTY	\$		\$	QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT						6.0		5.9														11.9
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs																						0.0
OTHER - ENGINEERING SUPPORT																						0.0
OTHER																						0.0

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6.0

0.0

INTERIM CONTRACTOR SUPPORT

INSTALL COST

TOTAL PROCUREMENT

5.9

6

0.0

0.0

0.0

0.0

0.0

0.0

CLASSIFICATION: UNCLASSIFIED

0.0

0.0

11.9

CLASSIFICATION: UNCLASSIFIED P3A	INDIVIDU	IAI MOI	DIFIC	ATION																	FEBRUAF	11 2004
	INDIVIDO	AL MOI	J 10	Allon																		
MODELS OF SYSTEM AFFECTED:					_	TYPE N	/ODIFI	CATION	:			-	MOE	DIFICATI	ON TI	TLE:			Aco	ustic Comn	nunications	(ACOMMs
DESCRIPTION/JUSTIFICATION:																						
Acoustic Communications provides two-way		,											•			` '		,		, ,	,	, 0
purpose, voice, continuous wave, multiple to submarines when interfaced with the AN/SQ							,			, ,	,	,			U	-			,			
acoustic communication equipment. Fundir																					tion enginee	ring
support and consulting services for the SSN	I 21, SSN 63 <i>i</i>	7, SSN 6	588, S	SSBN 720	6, DD9	963, DD	G 51, C	G 47, N	IHC 51	I, MCM	1, CVN	N 65, AR	S 50,	FFG 7, a	and C\	/N 68 cla	ass sr	lips and	subm	arines.		
DEVELOPMENT STATUS/MAJOR DEVELO	PMENT MILE	STONE	S:	N/A																		'
	FY 2002	2 & Prior	r		F١	Y 2003	FY	2004	F١	2005	F١	Y 2006	F۱	2007	F١	2008	F١	/ 2009	To C	Complete	TC	TAL
	QTY	\$		1	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	′ \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT						0.3		0.3		0.3		0.3		0.3		0.3		0.3				2.1
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs																						0.0
OTHER - ENGINEERING SUPPORT						0.1		0.1		0.1		0.1		0.1		0.1		0.1				0.4

ITEM PAGE 35 7

0.1

0.4

0.0

OTHER

INSTALL COST

TOTAL PROCUREMENT

INTERIM CONTRACTOR SUPPORT

0.1

0.4

0.1

0.4

0.4

0.1

0.4

0.1

0.4

0.1

0.4

CLASSIFICATION: UNCLASSIFIED

0.0

0.5

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3.0

CLASSIFICATION: UNCLASSIFIED																					FEBRUAR	Y 2004
P3A	INDIVID	JAL MOI	DIFIC	ATION																		
MODELS OF SYSTEM AFFECTED:					_	TYPE N	/ODIFI	CATION:				_	MOE	IFICATION	IT NC	TLE:			CV-T	SC		
DESCRIPTION/JUSTIFICATION:																						
The CV-TSC of the Carrier Combat Direct systems (S-3B and SH-60 Helicopters) by acoustic and non-acoustic signals to support interface devices. The CV-TSC furnishes changes to maintain system IT-21 supports been designated as the Alteration Installation of the company of the	providing miss ort CV/CVN US timely evaluate ability and inter on Team (AIT)	ion plann BW Self E d USW a roperabili for all ite	ning, in Defens and SU ity with ems. I	n-flight su se. The su JW infort n embark	upport system mation ted aird	and pos consist to the ( craft, air	t missions of dig Officer in the sound of th	on asses gital comp in Tactica sensors, a	sment outers al Con and sl	t/intellige s, comme nmand a: hipboard	nce ce ercial v s inpu interfa	ollection. workstation its to the caces will	CV-7 on disp decisi contin	TSC provolays, ma on makir oue. Nav	rides r ass ma ng pro ral Una	eal time emories, cess. Pi dersea V	and p plotte rocure Varfar	ost missers, acou ement of e Center	ion an istic ar non-d (NUV	nalysis of re nalysis equ evelopmer VC), Divisio	elayed or ta lipment and lital enginee on Keyport	ped I ering has
		2 & Prio	<u>r</u>			2003		2004		2005	_	Y 2006		2007	_	2008				omplete		<u>TAL</u>
FINANCIAL PLAN (IN MILLIONS)	QTY	<u> </u>			QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
		1	1	l	1	i	1	l	1	l	1	1	1	ı	1		1	i	1			

**INSTALLATION KITS - UNIT COST** 0.0 INSTALLATION KITS NONRECURRING 0.0 **EQUIPMENT** 8.0 0.7 0.7 0.7 0.8 8.0 0.8 5.3 EQUIPMENT NONRECURRING 0.0 0.0 ENGINEERING CHANGE ORDERS DATA 0.0 TRAINING EQUIPMENT 0.0 SUPPORT EQUIPMENT 0.0 OTHER - ECPs 0.0 OTHER - ENGINEERING SUPPORT 0.2 0.1 0.0 0.0 0.1 0.1 0.0 0.5 OTHER 0.1 0.0 0.0 0.0 0.1 INTERIM CONTRACTOR SUPPORT 0.0 0.1 0.2 0.2 0.2 0.2 INSTALL COST 0.1 0.2 1.3 TOTAL PROCUREMENT 0.0 1.2 0.9 1.0 1.0 1.0 1.0 1.0 0.0

ITEM PAGE CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIE		NIDIV/IDII		ODIFIO AT	1011	· · · ·																	F	EBRUA	RY 2004	
P3A (Continued)		INDIVIDU	AL IVI	ODIFICAT	ION (	Continued	)																			
MODELS OF SYSTEMS AFFECTI	ED:	CVN		MOD	)IFIC <i>A</i>	ATION TITL	E:	CV-T	SC											-						
NSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 I CONTRACT DATES: FY 2002 DELIVERY DATE: FY 2002	Months 2:		_	PRODUC FY 2003: FY 2003:		LEADTIMI	Ē: 					FY 20 FY 20						·		FY 20 FY 20		_		- -		
								(\$	S in M	illions	s)															
Cost:		02 & Prio	r			Y 2003		Y 2004	4	F	Y 200			Y 2006			Y 2007		Y 2008		Y 2009	To C	omple			tal
	Qty	\$			Qty	\$	Qty	\$		Qty	\$	i	Qty	\$	Q.	ty	\$	Qty	\$	Qty	\$	Qty		\$	Qty	\$
FY 2002 and PRIOR YEARS	Var				Var																				0	0.0
FY 2003 EQUIPMENT					Var	0.1																			0	0.1
FY 2004 EQUIPMENT							1		0.1	Î															1	0.1
FY 2005 EQUIPMENT										1		0.2													1	0.2
FY 2006 EQUIPMENT												_	1	0	).2										1	0.2
FY 2007 EQUIPMENT															Va	ar	0.2								0	0.2
FY 2008 EQUIPMENT																		Var	0.2						0	0.2
FY 2009 EQUIPMENT																				Var	0.2	0			0	0.2
TO COMPLETE *																						TBD		TBD	TBD	TBD
INSTALLA <u>TION SCHEDULE:</u>							•		•							•						-	•			
FY 2002			FY 2	2003		FY 2004			FY 2	<u>005</u>				2006			FY 2007		FY	2008		FY	2009		TC*	
& Prior		11		3 4	1	2 3	4	1	2	3	4	1	2		-	1	2 3	4	1 2	3			3	4		TOTAL
In 0		0		var 0	0	0 1	0		0	1	0	0					0 var		0 0		0 0	0			TBD	TBD
Out 0		0	0	0 var	0	0 0	1	0	0	0	1	0	0	0 1		0	0 0	var	0 0	0	var 0	0	0	var	TBD	TBD
																			P-3/	Δ						
				רו	ГЕМ		P/	AGE									CLAS	SSIFI	CATION:		ASSIFIE	D				
					35			9																		

CLASSIFICATION: UNCLASSIFIED																					FEBRUAR	Y 2004
P3A	INDIVIDU	IAL MOE	DIFIC	ATION																		
MODELS OF SYSTEM AFFECTED:						TYPE N	/ODIFI	CATION	:				MOD	IFICATI	ON TI	TLE:			CV-T	SC SNEA	ГТ	
DESCRIPTION/JUSTIFICATION:																						
AN FY 03 Congressional plus-up was aut enhance operator and maintenance traini														bilities th	nat wil	I be inte	grated	l into CV	-TSC	systems.	This effort w	ill
'	<u> </u>			<u> </u>					•			•										
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT MILE	STONE	S:	N/A																		
	FY 200	2 & Prior			F١	/ 2003	FY	2004	FΥ	2005	F١	2006	FΥ	2007	FY	<u> 2008</u>	F۱	<u>/ 2009</u>	To C	omplete	то	TAL
	QTY			1	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING	6																					0.0
EQUIPMENT						2.7																2.7
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs																						0.0
OTHER - ENGINEERING SUPPORT						0.5																0.5
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST																						0.0

0.0

3.2

0.0

TOTAL PROCUREMENT

0.0

0.0

0.0

0.0

0.0

0.0

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																					FEBRUAR	Y 2004
P3A	INDIVIDU	AL MOD	OIFIC	ATION																		
MODELS OF SYSTEM AFFECTED:					_	TYPE N	ODIFIC	CATION	:				MOD	IFICATI	ON TI	TLE:			Surfa	ice Sonar \	Nindows an	d Domes
DESCRIPTION/JUSTIFICATION:																						
AN/SQS-26/53 Sonar Dome Rubber Window which experience failure due to corrosion, fat source level receiving and sensitivity resulting 56 active/passive duct sonar systems. Produservice engineering.	gue, and imp from reduce	act in the	e spli ation	ice regio	on. The QS-56	SDRW Sonar R	signific ubber D	antly importantly important in im	proves SRD) a	s the sur are insta	face sl lled in	nip sonai FFG7 cla	perfo	rmance ips. Thi	by rec s prog	lucing flo	ow-inc vides	luced se emergei	If-nois ncy rep	e, and by polacement	providing inc SRD for AN	reased /SQS-
DEVELOPMENT STATUS/MAJOR DEVELO	PMENT MILE <u>FY 2002</u> QTY			N/A	<u>F\</u> QTY	<u>′ 2003</u> \$	<u>FY</u> QTY	2004 \$	<u>F\</u> QTY	<u>Y 2005</u>	<u>FY</u> QTY	<u>′ 2006</u> \$	<u>FY</u> QTY	<u>′ 2007</u> \$	<u>FY</u> QTY	<u>2008</u> \$	_	<u>′ 2009</u> \$	<u>To C</u>	omplete \$	<u>TO'</u> QTY	<u>ГАL</u> \$
FINANCIAL PLAN (IN MILLIONS)	QIY	Φ			QIY	Φ	QIY	Φ	QIY	<b>D</b>	QIY	Φ	QIY	Φ	QIY	Φ	QIY	Φ	QIY	Ф	QIY	Φ
<u>RDT&amp;E</u>																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT						1.7		3.3		3.6		3.8		3.9		4.0		4.1				24.2
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ECPs																						0.0
OTHER - ENGINEERING SUPPORT						1.1		1.1		1.2		1.2		1.2		1.2		1.2				8.1
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST						_								_		_						0.0

4.4

2.8

0.0

TOTAL PROCUREMENT

4.8

5.0

5.1

5.2

5.3

0.0

CLASSIFICATION: UNCLASSIFIED

32.6

CLASSIFICATION: UNCLASSIFIED P3A FEBRUARY 2004

РЗА	INDIVIDUAL MODIFICATION				
MODELS OF SYSTEM AFFECTED:	Expeditionary Strike Forces (ESFs)	TYPE MODIFICATION:	Added Capability	MODIFICATION TITLE:	Common Undersea Picture (CUP)
				_	

DESCRIPTION/JUSTIFICATION:

Funding identified provides for the procurement and installation of CUP capability on ESF platforms and supporting shore nodes as permanent alterations, and will support periodic technology refresh of CUP hardware/software to keep capabilities concurrent with leading COTS technology.

FY 2002 QTY	2 & Prior \$	<u> </u>		<u>FY 200</u> QTY	) <u>3</u> §	<u>FY</u> QTY	<u>2004</u> \$	FY	2005	ΕY	2006	EV	2007	EV	2000			<b>T</b> .	0	т.	4-1
QTY	\$			QTY :	5	QTY	Φ.				2000	<u> </u>	2007	<u> </u>	2008	<u>F Y</u>	2009	10	<u>Complete</u>	10	<u>otal</u>
							\$	QTY	\$	QTY	<u>2006</u> \$	QTY	<u>2007</u> \$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
																					0.0
																					0.0
																					0.0
								2	1.7	2	2.3	2	1.3	2	1.7					8	7.0
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								2	6.2	2	5.8	2	4.5	2	4.7					8	21.2
	0.0			0	.0		0.0		7.9		8.1		5.8		6.4		0.0		0.0		28.2
		0.0	0.0	0.0		0.0 0.0 ITEM				0.0 0.0 0.0 7.9	2 6.2 2 0.0 0.0 0.0 7.9	2 6.2 2 5.8 0.0 0.0 0.0 7.9 8.1	2 6.2 2 5.8 2 0.0 0.0 0.0 7.9 8.1	2 6.2 2 5.8 2 4.5 0.0 0.0 0.0 7.9 8.1 5.8	2 6.2 2 5.8 2 4.5 2 0.0 0.0 0.0 7.9 8.1 5.8	2 6.2 2 5.8 2 4.5 2 4.7 0.0 0.0 0.0 7.9 8.1 5.8 6.4	2 6.2 2 5.8 2 4.5 2 4.7 0.0 0.0 0.0 7.9 8.1 5.8 6.4	2 6.2 2 5.8 2 4.5 2 4.7 0.0 0.0 0.0 7.9 8.1 5.8 6.4 0.0	2 6.2 2 5.8 2 4.5 2 4.7 0.0 0.0 0.0 7.9 8.1 5.8 6.4 0.0	2 6.2 2 5.8 2 4.5 2 4.7 0.0 0.0 0.0 7.9 8.1 5.8 6.4 0.0 0.0	2 6.2 2 5.8 2 4.5 2 4.7 8 0.0 0.0 0.0 7.9 8.1 5.8 6.4 0.0 0.0

CLASSIFICATION: UNCLASSIFIED																				FE	BRUAR	2004	
P3A (Continued)		INDIVIDU	AL M	ODIFICA	TION (	Continu	ed)																
MODELS OF SYSTEMS AFFECTED		Expedition Forces (E		Strike MC	DIFICA	T NOITA	TTLE	: Commo	n Unc	lersea Pi	cture	(CUP)											
NSTALLATION INFORMATION:	•	1 01000 (E	01 0)																				
METHOD OF IMPLEMENTATION:	AIT																						
ADMINISTRATIVE LEADTIME <u>: 1 M</u>	onth					LEADT	IME:	2 Month	าร								_						
CONTRACT DATES: FY 2002:			_	FY 2003							2004:				_	FY 2	2005:			_			
DELIVERY DATE: FY 2002:			-	FY 2003	3:					FY	2004				-	FY 2	2005:				_		
Ozak	-\/ 00	00 0 Dele			·	/ 0000		(\$ in M				/ 0000		TV 0007		- 1/ 0000		->/ 00	00	T- 0	\ l - t -	1	Tatal
Cost:	Qty	02 & Prior \$	-	1	Qtv	2003	Qty	Y 2004 \$	Qty	Y 2005 \$	Qty	Y 2006 \$	Qty	Y 2007	Qty	Y 2008 \$	Qty	Y 20	\$	Qty	complete \$	Qty	Total \$
	Qty	φ			Qty	Ψ	Qty	Ψ	Qty	φ	Qty	Ψ	Qty	Ψ	Qty	φ	Qty		φ	Qty	Ψ	Qty	Ψ
FY 2002 and PRIOR YEARS																						0	0.0
T P 2002 and T WOR TEXT																							0.0
FY 2003 EQUIPMENT																						0	0.0
FY 2004 EQUIPMENT																						0	0.0
FY 2005 EQUIPMENT									2	6.2	2											2	6.2
FY 2006 EQUIPMENT											2	5.8	3									2	5.8
FY 2007 EQUIPMENT													2	4.5	5							2	4.5
FY 2008 EQUIPMENT															2	4.7	7					2	4.7
FY 2009 EQUIPMENT																						0	0.0
TO COMPLETE																						0	0.0
INSTALLATION SCHEDULE:																							
FY 2002			FY 2	<u> 2003</u>		FY 200	<u>4</u>	FY	2005		FY 2	2006		FY 2007		FY 2	2008			FY 20	<u>09</u>	<u>TC</u>	
& Prior		1	2	3 4	1	2 :	3 4	1 2	3	4 1		3 4			4	1 2	3	4	1	2	3 4		TOTAL
In 0		0	0	0 0	0			0 0		11		1 1	11		1	0 0	1	1	0	0	0 0	0	8
Out 0		0	0	0 0	0	0	0 0	0 0	1	1 0	0	1 1	0	0 1	1	0 0	1	1	0	0	0 0	0	8
																P-3.							
					ITEM		PA	GE						CLA	SSIFI	CATION:	UNC	LASS	<b>IFIED</b>				

	BUDGE	T ITEM	JUSTIFICA	TION SHEE	T			DATE:			
				P-40					February 2004	4	
APPROPRIATION/BUD	GET ACTIV	ITY				P-1 ITEM NO	MENCLATURE	LINE ITEM #			
OTHER PROCURE	MENT, NA	VY				SONAR SWIT	TCHES AND T	RANSDUCERS	S 218100		
BA-2: COMMUNIC	ATIONS &	ELECT	RONICS EC	QUIPMENT							
Program Element for C	ode B Items	s:				OTHER RELA	ATED PROGRA	AM ELEMENTS	S		
PE# 0204281N											
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
EQUIPMENT COST											
(In Millions)			\$15.8	\$13.5	\$13.3	\$12.8	\$13.0	\$13.4	\$13.7		\$95.6
SPARES COST			\$0.6	\$0.4	\$0.4	\$0.4	\$0.4	\$0.4	\$0.4		\$1.8
(In Millions)			<b>Φ</b> υ. <b>0</b>	<b>ψ</b> 0.4	<b>φ</b> 0.4	<b>φ</b> 0.4	<b>Ψ</b> 0.4	<b>Ψ</b> 0.4	<b>φυ.4</b>		φ1.0

## PROGRAM DESCRIPTION/JUSTIFICATION:

This program procures hydrophones, transducers, cables, associated OutBoard Electronics bottles (OBE), and acoustic windows for In Service Under Sea Warfare Sonars on all classes of submarines. The components are required to support units in the fleet on a replacement basis, at regularly scheduled ship overhauls, and at interim availabilities when units are defective, and for upgrades.

## **PU100 SONAR SWITCHES AND TRANSDUCERS**

Included in this line are procurements of transducers, hydrophones, windows, cables, OutBoard Electronics (OBE), and domes and their associated mounting hardware and other support equipment and materials for the following Under Sea Warfare Sonars: BSY-1, BSY-2, BQQ-5, BQQ-6, BQQ-10, BQG-5, BQS-15, BQS-14A, WQC-2, WLR-9/12, BQN-13, BQN-17, BQA-8, and BQH-1.

# **PU200 ENGINEERING CHANGES**

Funds ECPs, Value Engineering awards, and hardware changes affecting the SSN 688, 688I, SSN 21, and SSBN 726 (TRIDENT) Class submarines.

# **PU300 PROGRAM SUPPORT**

Supports the procurement of equipment of sonar hydrophones, trandsducers, cables, OutBoard Electronics, and acoustic windows for In Service Under Sea Warfare Sonars.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 36 PAGE NO. 1

DD Form 2454, JUN 86

UNCLASSIFIED

	WEAPOI		M COST AN	IALYSIS				Weapon Sys	tem			DATE:	Fohmuon, 20	104
Other	PRIATION/BUDGET ACTIVITY Procurement, Navy COMMUNICATIONS & ELECTRO		P-5 QUIPMEN	т		ID Code		I OMENCLATU WITCHES A			(H2PU)	ı	February 20	JU4
			TOTAL COS	T IN THOUS	SANDS OF	DOLLARS	1							
COST	ELEMENT OF COST	ID Code		FY 2003			FY 2004			FY 2005				
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST			
PU100	SONAR SWITCHES & TRANSDUCERS													
	CW-1147 CW-1181C MX-10624 MX-10616 () WINDOW (NSSN HFSA) MX-11474() DT-574OBE DT-511B DT-513 () DT-592 TR-232() TR-233B TR-282 TR-302B & CBL TR-302(WINDOW) TR-317C TR-321() TR-321V CTD TR-338A & CBL TR-341() WAA OBE DT-677 NCC CONNECTORS DT-699() HFSA RECEIVE TR-364() HFSP XMIT	A A A A A A A A A A A A A A A A A A A	15 9 2 1 30 166 40 30 26 10 75 40 95 384 245 700 19 4	8.5 131.4 143.2 151.2 29.7 2.4 18.7 16.8 7.2 0.6 7.8 22.4 9.6 8.6 6.2 0.7 43.9 93.8	128  1,183 286 151 891 398 748 504 187  6 585 896 912 3,302 1,519 490 834 375	23 4 3 1 75 25 150 30 25 20 33 10 40 40 400 400 18	138.5 151.7 162.2 18.6 17.3 3.7 19.1 8.1 46.6 38.1 0.6	301 554 455 162 1,395 433 555 573 203 932 1,257 6	22 35 3 1 1 85 15 100 20 20 30 10 70 20 20 72 80 375 21 2	27.3 3.1 146.5 157.6 166.1 13.6 17.6 2.3 19.2 27.216 27.7 0.6 11.9 22.5 14.5 12.4 7.8 0.7 82.7 192.2	601 109 444 158 166 1,155 264 230 384 544 831 450 299 893 624			
	TOTAL PU100				13,396			10,793			10,361			
PU200 PU300	ENGINEERING CHANGES PROGRAM SUPPORT	A A			239 2,206			150 2,600			165 2,804			
TOTAL					15,841			13,543			13,330	)		

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 36 PAGE NO. 2

									F. b	0004
A DDDODDIATION/D	UDOET	A OTIV (IT)			0 04 1751	A NOMENOL ATUE	·-			ry 2004
B. APPROPRIATION/B		ACTIVIT	Y			M NOMENCLATUR			SUBHEAD	
Other Procurement, Nav					SONAR SWIT	CHES AND TRANSDU	CERS		H2	PU
BA-2: COMMUNICATIO	NS & E	LECTRON	NICS EQUI	PMENT						
					CONTRACT			DATE OF	SPECS	IF NO
Cost Element/	QTY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	WHEN
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION		DELIVERY	NOW	AVAILABLE
TISCAL TEAK			01 100	DAIL	Q I I I L	AND LOCATION	DAIL	DELIVER	NOW	AVAILABLE
PU100		(000)								
-0100										
FY 2003										
CW-1147 (AN/WLR-9)	15	8.537	NUWC		OPTION	ANTENNA ASSOCIATES	1/03	3/04	YES	
MX-10616 () (BSY-1 A-RCI IV)	9	131.383	NUWC		OPTION**	B F Goodrich	1/03	3/04	YES	
VINDOW NSSN HFSP	2	143.170	NUWC		OPTION**	B F Goodrich	1/03	3/04	YES	
MX-11474() (BSY-2-HFSA)	1	151.213	NUWC		C/FP	UNKNOWN	9/03	3/04	YES	
OT-511B (WLR-9)*	30	29.703	NUWC	10/02	C/FP	ITC	3/03	3/04	YES	
DT-513() (AN/BQA-8)	166	2.373	NUWC		OPTION	SEABEAM	1/03	3/04	YES	
OT-592 (AN/WLR-9)	40	18.704	NUWC		OPTION	ITC	1/03	3/04	YES	
VAA OBE (AN/BQG-5)*	384	8.647	NUWC	10/02	C/FP	HARRIS	5/03	3/04	YES	
OT-677 (AN/BQG-5)	245	6.248	NUWC		OPTION	EDO	1/03	3/04	YES	
R-232() (AN/WQC-2)	30	16.774	NUWC		OPTION	EDO	1/03	3/04	YES	
R-233B (AN/WQC-2)	26	7.206	NUWC		OPTION	HARRIS	1/03	3/04	YES	
R-302 WINDOW (AN/BQN-17)	10	0.595	NUWC		WX	NUWC	1/03	3/04	YES	
TR-321() (AN/BQH-1C)	75 40	7.767 22.432	NUWC NUWC	10/02	OPTION C/FP	ITC ITC	1/03 3/03	3/04 3/04	YES YES	
R-338A & CABLE (AN/BSY-1)* R-341() (AN/BQN-13A)	95	9.588	NUWC	10/02	OPTION	ITC	1/03	3/04	YES	
DT-699()HFSA REC (AN/BSY-1)	19	43.921	NUWC		OPTION	HARRIS	1/03	3/04	YES	
R-364() HFSP XMIT (AN/BSY-1)	4	93.792	NUWC		OPTION	HARRIS	1/03	3/04	YES	
ICC CONNECTORS	700	0.665	NUWC		C/FP	VARIOUS	3/03	3/04	YES	
		0.000			0	.,	0.00	0.0.	. 20	
					ĺ					

<sup>\*</sup> INCLUDES FIRST ARTICLE COSTS

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

CLASSIFICATION:

<sup>\*\*</sup> Option on the FY01 NSSN/ ARCI Phase IV SHIPALT procurement contract

**UNCLASSIFIED CLASSIFICATION:** 

BUDGET PROCUREMEN	T HIST	ORY ANI	D PLANNIN	IG EXHIBIT	「(P-5A)	Weapon System		A. DATE		
										ry 2004
B. APPROPRIATION/BU	<b>JDGET</b>	<b>ACTIVIT</b>	Y		C. P-1 ITEI	M NOMENCLATUR	RE	-	SUBHEAD	
Other Procurement, Nav	v				SONAR SWITE	CHES AND TRANSDU	ICERS		Н2	PU
BA-2: COMMUNICATION		FCTPON	JICS FOLIII	DMENT			, o			. •
BA-2. COMMONICATION	15 & L	LLCTIO	TICS EQUI	IAITIAI	CONTRACT			DATE OF	SPECS	IF NO
					_			_		_
Cost Element/	QTY	UNIT		RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	WHEN
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
		(000)								
PU100		, ,								
FY 2004										
MX-10624()(AN/BSY-1/2)*	23	13.124	NUWC		WX	NUWC	1/04	1/05	YES	
MX-10616 () (BSY-1 A-RCI IV)	4	138.458	NUWC		OPTION**	B F Goodrich	3/04	3/05	YES	
WINDOW (NSSN HFSA)	3	151.741	NUWC		OPTION**	B F Goodrich	3/04	3/05	YES	
MX-11474() (BSY-2 HFSA)	1	162.225	NUWC		OPTION***	UNKNOWN	3/04	3/05	YES	
DT-574 OBE (AN/BSY-2)*	75	18.617	NUWC	7/03	C/FP	UNKNOWN	3/04	3/-5	YES	
DT-511B (WLR-9 (AN/BSY-1/2)	25	17.270	NUWC		OPTION	ITC	3/04	3/05	YES	
DT-513() (AN/BQA-8)*	150	3.672	NUWC	7/03	C/FP	UNKNOWN	3/04	10/05	YES	
DT-592 (AN/WLR-9)	30	19.072	NUWC		OPTION	ITC	3/04	3/05	YES	
WAA OBE (AN/BQG-5)	120	7.637	NUWC		OPTION	HARRIS	3/04	3/05	YES	
DT-677 (AN/BQG-5)	150	6.269	NUWC		OPTION	EDO	3/04	3/05	YES	
TR-282(AN/BQS-15)*	20	46.579	NUWC	7/03	C/FP	UNKNOWN	3/04	3/05	YES	
TR-233B (AN/WQC-2)	25	8.076	NUWC		OPTION	HARRIS	3/04	3/05	YES	
TR-302B & CABLE (AN/BQN-17)*	33	38.090	NUWC	7/03	C/FP	UNKNOWN	3/04	3/05	YES	
TR-302 WINDOW (AN/BQN-17)	10	0.605	NUWC		WX	NUWC	1/04	3/05	YES	
TR-338A & CABLE (AN/BSY-1)	40	14.195	NUWC		OPTION	ITC	3/04	3/05	YES	
TR-341() (AN/BQN-13A)	30	11.999	NUWC		OPTION	ITC	3/04	3/05	YES	
DT-699() HFSA REC (AN/BSY-1)	18	44.843	NUWC		OPTION	HARRIS	3/04	3/05	YES	
TR-364() HFSP XMIT (AN/BSY-1)	1	95.761	NUWC		OPTION	HARRIS	3/04	3/05	YES	
NCC CONNECTORS	400	0.711	NUWC		C/FP	VARIOUS	4/04	4/05	YES	
FY 2005	400	0.711	140440		0/11	VAINIOUU	4/04	4/05	120	
CW-1181C (WLR-9)*	22	27.303	NUWC	7/04	C/FP	UNKNOWN	3/05	3/06	YES	
MX-10624() (AN/BSY-1/2)	35	3.095	NUWC	7704	WX	NUWC	1/05	1/06	YES	
MX-10616 () (BSY-1 A-RCI IV)	3	146.454	NUWC		OPTION**	B F Goodrich	3/05	3/06	YES	
WINDOW (NSSN HFSA)	1	157.562	NUWC		OPTION**	B F Goodrich	3/05	3/06	YES	
MX-11474() (BSY-2 HFSA)	1	166.109	NUWC		OPTION***	UNKKNOWN	3/05	3/06	YES	
DT-574 OBE (AN/BSY-2)	85	13.598	NUWC		OPTION	UNKNOWN	3/05	3/-6	YES	
DT-511B (WLR-9)	15	17.623	NUWC		OPTION	ITC	3/05	3/06	YES	
DT-5116 (WER-9) DT-513() (AN/BQA-8)	100	2.323	NUWC		OPTION	UNKNOWN	3/05	3/06	YES	
DT-513() (AN/BQA-6) DT-592 (AN/WLR-9)	20	19.208	NUWC		OPTION	ITC	3/05	3/06	YES	
,	80	7.816	NUWC		OPTION	HARRIS	3/05	3/06	YES	
WAA OBE (AN/BQG-5)	20	7.816 27.216	NUWC		OPTION		3/05			
TR-282 (AN/BQS-15)	l .	27.216	NUWC		OPTION	UNKNOWN	3/05	3/06	YES	
TR-302B & CABLE (AN/BQN-17)	30 10	0.618	NUWC		WX	UNKNOWN NUWC	1/05	3/06 3/06	YES YES	
TR-302 WINDOW (AN/BQN-17)	l .									
TR-321() (AN/BQH-1C)*	70	11.920	NUWC	7/04	OPTION	UNKNOWN	3/05	10/06	YES	
TR-321V CTD	20	22.454	NUWC	7/04	C/FP	UNKNOWN	3/05	3/06	YES	
TR-338A & CABLE (AN/BSY-1)	20	14.493	NUWC		OPTION	ITC	3/05	3/06	YES	
TR-341() (AN/BQN-13A)	72	12.369	NUWC	7/01	OPTION	ITC	3/05	3/06	YES	
DT-699() HFSA REC (AN/BSY-1)*	21	82.671	NUWC	7/04	C/FP	UNKNOWN	3/05	3/06	YES	
TR-364() HFSP XMIT (AN/BSY-1)*	2	192.150	NUWC	7/04	C/FP	UNKNOWN	3/05	3/06	YES	
NCC CONNECTORS	375	0.713	NUWC		C/FP	VARIOUS	4/05	4/06	YES	

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\* INCLUDES FIRST ARTICLE COSTS

P-1 SHOPPING LIST

CLASSIFICATION:

<sup>\*\*</sup> Option on the FY01 NSSN/ ARCI Phase IV SHIPALT procurement contract \*\*\*Option on FY02 BSY-2 SHIPALT Procurement contract

CLASSIFICATION:			UNCLAS	SIFIED							
			BU	DGET ITEM JUS	STIFICATION SI -40	HEET				DATE: FEBRUARY 20	04
APPROPRIATION/BUDG	GET ACTIVITY						P-1 ITEM NOMEN	CLATURE		•	
OTHER PROCURE	MENT, NAVY						SUBMARINE A	COUSTIC WAR	FARE SYSTEM	II (SAWS) / H2WI	M
Program Element for Coo	de B Items:						Other Related Pro	gram Elements		-	
221000											
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY											
COST											
(In Millions)	CONT.		\$20.485	\$25.937	\$20.857	\$23.563	\$25.326	\$25.924	\$31.314	CONT.	TBD
SPARES COST (In Millions)											

#### PROGRAM DESCRIPTION/JUSTIFICATION:

The Submarine Acoustic Warfare System (SAWS) provides submarines with an enhanced capability against guided and unguided torpedoes and the means to reduce the effectiveness of enemy sensors. This program provides ongoing production of countermeasure devices needed to sustain fleet inventories, production of preplanned improvements to enhance the readiness and effectiveness of acoustic intercept receivers and processors, and production of countermeasure devices and associated countermeasure launcher systems.

The FY03 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, CSA MK 2 Mod 1 Countermeasure Launchers, CSA MK 2 CABLE Procurement, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

The FY04 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, CSA MK 2 Mod 1 Countermeasure Launchers, CSA MK 2 CABLE Procurement, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

The FY05 funds are required to procure 6" Countermeasures (ADC MK 3 and MK 4 with associated launch tubes), ADC MK 2, NAE Beacons, CSA MK 2 Mod 1 Countermeasure Launchers, Acoustic Intercept Improvement, GG MK 77 for 6" Countermeasures, and associated production support.

#### CSA MK 2 Cable Installation:

SHIPALT SHIPALT	3Q/FY01	SSN773			Date	End Item	Funding	Туре	Date	End Item	Funding
CHIDALT		0011770	.169M	SHIPALT	4Q/FY02	SSN766	.170M	SHIPALT	3Q/FY04	SSN765	.170M
SHIPALI	4Q/FY01	SSN767	.169M	SHIPALT	1Q/FY03	SSN771	.170M	SHIPALT	4Q/FY04	SSN764	.170M
SHIPALT	4Q/FY01	SSN754	.169M	SHIPALT	3Q/FY03	SSN770	.170M	SHIPALT	3Q/FY04	SSN762	.170M
SHIPALT	4Q/FY01	SSN753	.169M	SHIPALT	3Q/FY03	SSN769	.170M	SHIPALT	3Q/FY04	SSN761	.170M
IMA EAST COAST	4Q/FY01	N/A	N/A	SHIPALT	3Q/FY03	SSN768	.170M	SHIPALT	4Q/FY04	SSN751	.170M
IMA WEST COAST	4Q/FY01	N/A	N/A	SHIPALT	3Q/FY03	SSN760	.170M	SHIPALT	4Q/FY05	SSN752	.171M
SHIPALT	2Q/FY02	SSN757	.170M	SHIPALT	4Q/FY03	SSN759	.170M	SHIPALT	1Q/FY05	SSN691	.171M
SHIPALT	3Q/FY02	SSN763	.170M	SHIPALT	3Q/FY04	SSN772	.170M	SHIPALT	4Q/FY05	SSN758	.171M

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CLASSIFICATION:

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**UNCLASSIFIED** 

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CLASSIFICAT	WEAPONS SYSTEM COS		YSIS			Weapon Sy	/stem						DATE:
	P-5						r						FEBRUARY 2004
	PRIATION/BUDGET ACTIVITY ocurement, Navy					ID Code	P-1 ITEM N	IOMENCLATI	URE/SUBHE	EAD			
	Communication and Electronic Equipment - A	ASW					SUBMARIN	NE ACOUSTION	C WARFAR	E SYSTEM	(SAWS) / H	I2WM	
			TOTAL COS	ST IN THOU	SANDS OF						(0)		
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005		
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
WM014	ADC MK3 (TORPEDO)	Α		90	19	1,738	142	24	3,463	160	24	3,913	
WM014	ADC MK 4 (SONAR)	Α		70	32	2,262	116	32	3,761	112	33	3,642	
WM014	6" COUNTERMEASURE (First Article)	Α				0			931			0	
WM014	6" COUNTERMEASURE LAUNCH TUBE	Α		160	5		258	5	1,290	272		1,531	
WM014	ADC MK 3/4 MOD 1 SEAWOLF EC	Α		68	1	89	20	1	26	20	1	26	
WM014	ADC MK 3/4 SEAWOLF N/R	Α				306			0			0	
WM015	ADC MK 2 MOD 1	_		254	3	764	370	-	1,878	407	5	2 404	
WM015	ADC MK 2 MOD 1 SEAWOLF EC	A		204	3	764	20	5 2		487 20	_	, -	
WM015	NAE BEACON	A		687	5	3,702	787	6		156		954	
***************************************	TV LE BEX 18614	'`		007	· ·	0,702	707		1,700	100		001	
WM017	ACOUSTIC INTERCEPT IMPROVEMENT	Α				4,164			2,652			2,194	
WM019	CSA MK 2 MOD 1 LCP ENG. CHANGE	Α		2	318	635		317	634	4	318	1,271	
WM019 WM019	CSA MK 2 CABLE PROCUREMENT 6" CSA MK 2 NR	A		6	196	1,177 75	3	216	648			0	
WM927	CSA MK2 CABLE INSTALLATION	A		6	226	1,356	6	230	1,378	3	230	691	
		, ,				1,000		200	1,010	·			
WM022	GAS GENERATOR MK 77	Α		160	8	1,280	258	8	2,064	272	8	2,293	
						. =							
WM830	PRODUCTION ENGINEERING					1,700			1,967			1,588	
WM900	CONSULTING SERVICES					437			400			225	
						101			.00				
	<u> </u>					20,485			25,937			20,857	

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Page 2

Notes: (1) WM015 FY 03 unit costs represents remanufacture costs versus new procurement cost of ADC MK 2.

(2) FY 03 control reflects a \$2.0M BTR to S.H. 81HJ

**UNCLASSIFIED** 

DD Form 2446-1, JUL 87

# **UNCLASSIFIED**

BUDGET PROCUREMENT HIST	ORY AND PLAN	NING EX	HIBIT (P-5A)			Weapon System		A. DATE		
								F	EBRUARY 20	04
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NON	E ACOUSTIC WARFARE SYS	TEM		SUBHEAD H2WM	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY03 ADC MK 3 - WM014 ADC MK 4 - WM014 LAUNCH TUBES - WM014 NAE BEACON - WM015 ADC MK 2 MOD 1 - WM015 CSA MK 2 CABLES - WM019 GG MK 77 - WM022 FY04 ADC MK 3 - WM014 ADC MK 4 - WM014	90 70 160 687 254 6 160	32.316 5.000 5.389 3.007 196.200 8.000 24.384 32.419	NAVSEA NAVSEA NSWC/CRANE NSWC/CRANE NAVSEA NAVSEA NSWC/CRANE		OPTION OPTION WX RCP WX OPTION OPTION OPTION OPTION	BAE Systems, Braintree, MA BAE Systems, Braintree, MA NRAD, SAN DIEGO, CA Allied Logistics, Ventura CA NSWC/CRANE BAE Systems, Braintree, MA UPCO, PHOENIX, AZ  BAE Systems, Braintree, MA BAE Systems, Braintree, MA	3/03 3/03 1/03 1/03 6/03 2/02 2/03	4/04 4/04 7/03 4/04 4/04 6/03 8/03	YES	N/A N/A N/A N/A N/A N/A N/A
LAUNCH TUBES - WM014 NAE BEACON - WM015 ADC MK 2 MOD 1 - WM015 CSA MK 2 CABLES - WM019 GG MK 77 - WM022	258 787 370 3 258	6.096 5.076 216.000	NSWC/CRANE NSWC/CRANE NAVSEA NAVSEA NSWC/CRANE		WX RCP OPTION OPTION OPTION	NRAD, SAN DIEGO, CA Allied Logistics, Ventura CA BAE Systems, Braintree, MA BAE Systems, Braintree, MA UPCO, PHOENIX, AZ	1/04 1/04 12/03 12/03 1/04	6/04 4/05 1/05 6/04 7/04	YES YES YES YES YES	N/A N/A N/A N/A N/A
ADC MK 3 - WM014 ADC MK 4 - WM014 LAUNCH TUBES - WM014 NAE BEACON - WM015 ADC MK 2 MOD 1 - WM015 GG MK 77 - WM022	160 112 272 156 487 272	32.515 5.628 6.114 5.095	NAVSEA NAVSEA NSWC/CRANE NSWC/CRANE NAVSEA NSWC/CRANE		OPTION OPTION WX RCP OPTION OPTION	BAE Systems, Braintree, MA BAE Systems, Braintree, MA NRAD, SAN DIEGO, CA Allied Logistics, Ventura CA BAE Systems, Braintree, MA UPCO, PHOENIX, AZ	1/05 1/05 1/05 1/05 1/05 1/05	1/06 1/06 7/05 4/06 1/06 7/05	YES YES YES YES YES YES YES	N/A N/A N/A N/A N/A N/A

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Classification:

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UNCLASSIFIED

P3A 		
MODELS OF SYSTEM AFFECTED: CSA MK 2 SYSTEM (CABLE)	TYPE MODIFICATION SHIPALT	MODIFICATION TITLE:
DESCRIPTION/JUSTIFICATION:		
Installation of the CSA MK 2 Cables. (WM019 / WM927)		

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY02 an	d Prior	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	FY	<u> 2008</u>	FY	2009		TOTAL
	QTY	\$	QTY	\$	QTY	′\$	QTY	\$	QTY	\$	QTY	\$	QTY	<b>′</b> \$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																		
RDT&E																		
<u>PROCUREMENT</u>																		
INSTALLATION KITS																		
INSTALLATION KITS - UNIT COST																		
INSTALLATION KITS NONRECURR	ING																	
EQUIPMENT	15	3.2	6	1.2	3	0.6		0.0		0.0		0.0		0.0		0.0	24	5.0
EQUIPMENT NONRECURRING																		
ENGINEERING CHANGE ORDERS																		
DATA																		
TRAINING EQUIPMENT																		
SUPPORT EQUIPMENT																		
OTHER																		
OTHER																		
OTHER																		
INTERIM CONTRACTOR SUPPORT	-																	
INSTALL COST	7	1.3	6	1.4	6	1.4	3	0.7		0.0		0.0		0.0		0.0	22	4.8
TOTAL PROCUREMENT	22.0	4.5		2.5		2.0		0.7										9.8

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CLASSIFICATION: UNCLASSIFIED

CLASSIFIC	ATION: UN	NCLASS	IFIED																							
P3A (Contin	nued)				INDIV	DUA	L MC	DDIFICA	ATION	(Continu	ıed)															
MODELS O	F SYSTEM	IS AFFE	CTED:	CSA	4 MK 2	(CAI	BLE)	МС	DIFIC	ATION T	TLE:	SI	HIPAL	Т										_		
INSTALLAT METHOD O				Ship	vard																					
ADMINISTR				Onip	yaru			PRODI	JCTIC	N LEAD	IME:		12	Mor	nths											
CONTRACT DELIVERY		FY 200 FY 200					•	FY 200 FY 200					_			2002 2002						<del>-</del> -				
												(5	\$ in Mi	llions	;)											
	Cost:				2 and F			2003		Y 2004	F	Y 200			Ý 2006		Y 2007		Y 2008		Y 2009		Complete			
				Qty	\$		Qty	\$	Qty	\$	Qty	/	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YE	ARS																									
FY 2002 E			or	7		1.3																		7	1.3	
FY 2003 E							6	1.4																6	1.4	
FY 2004 E									6	1.4	l l													6	1.4	
FY 2005 E												3	0.7											3	0.7	
FY 2006 E															0.	0									0.0	
FY 2007 E	QUIPMEN	Т															0.0	)							0.0	
FY 2008 E	QUIPMEN	Γ																	0.0	)					0.0	
FY 2009 E	QUIPMEN	Ţ																			0.0	_			0.0	
TO COMP	LETE			7		1.3	6	1.4	6	1.4	l.	3	0.7		0.	0	0.0	)	0.0	)	0.0			22	4.8	
	ATION SCI	H <u>EDULE</u>	<u>.</u>																							
	FY 2002		<u> 2003</u>		<u> </u>	Y 20				<u> 2005</u>		FY 2				2007	- 11	FY 2			FY 2009			<u>TC</u>		
	& Prior	1 2	3	4	1	2		4 1	2	3 4		2		4	1 2				3 4		2 3				TOTAL	
In Out	7 7	1 0	4 4		0	0	4 4	2 1 2 1	0	0 2 0 2	0			0	0 0		0 0	0	0 0	11	0 0	0		0	22 22	
NOTE:		•		· ·										I												
INOIL.																							Б.			
																							P-3/	4		

FY 2004/05 BUDGET PRODUCT		CHE	DULE,	P-21														DATE	•		FEBR	UAF	RY 2	004					
APPROPRIATION/BUDGET ACT OTHER PROCUREMENT, I													We	eapon	Sys	tem		P-1	ITEM	1 N	OMENC	CLA	TURI						
·							Pro	ductio	on R	ate					Pro	cure	men	t Lea	adtim	es									
Item		_	nufactu and L		ın	M	SR	1-8	2-5	M	4X		LT F o Oc			₋T A Oct			nitial fg PL		Reore Mfg F			Tot	al			nit of asur	
6" COUNTERMEASURES			INTRE			IVI		200	)-0	200		·	0 00	<i>,</i> ( )		OCI	<u> </u>	IVI	ıyı L	_	IVIIQ F	LI		100	aı		IVIE	15ui	<u>e                                      </u>
LAUNCH TUBES			N DIE				40	400		400																			
ADC MK 2			INTRE					200		200										-								—	
GG MK 77			INTRE		١		15	200		200																		—	
NAE BEACON	ALLII	ED, V	/ENTL	JRA C	A		10	200		200													+						
										FISC	AL YE	EAR 2	2003		!						FIS	SCAL	YEAR	2004		•			
ITEM / MANUFACTURER	F	S	Q	D	В		2002	2			C	ALENI	DAR Y	/EAR 20	003			2	2003			С	ALENI	DAR Y	EAR 2	2004			
	Y	C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	Ŋ	A U G	S E P	O C T	N O V	D E C	J F A E N B	M A R	Р	M A Y	J U N	J J	A U G	S E P	B A L
ADC MK 3						<u> </u>	V	C	IN	D	rτ	Α.	ī	IN	L	G	r	<del> </del>	v	U	IN B	K	K	T	IN	L	G		$\vdash$
BAE Systems, Braintree, MA	03	1	90	0	90				l		Α				l							1	10	10	10	10	10	10	30
BAE Systems, Braintree, MA	04		142	0	142																		Α				1		142
BAE Systems, Braintree, MA	05		160	0	160																								160
BAE Systems, Braintree, MA	06		210	0	210																								210
ADC MK 4																													
BAE Systems, Braintree, MA	03		70	0	70						Α												15	15	15	15	10		0
BAE Systems, Braintree, MA	04		116	0	116																		Α						116
BAE Systems, Braintree, MA	05		112	0	112																								112
BAE Systems, Braintree, MA	06		144	0	144																						-		144
HARDWARE CONTINUED ON P21(1)																													
	+									FISC	AI YE	EAR 2	2005								FISCA	YF/	AR 200	16					
ITEM / MANUFACTURER	F	s	Q	D	В		2004	l.	I					/EAR 20	005				2005				ALENI		FAR 2	2006			
	Y	V	T	E	A	0	N	D	J	F	М	A	М	1	1	Α	S	0	N	D	J F	Тм	1	М		J	Α	S	В
		С	Υ	L	L	C	0 V	E	A N	E B	A R	P R	A Y	U	U	U	E P	C		E C	A E	A	Р	A	U	U	U	E P	A L
ADC MK 3																													
BAE Systems, Braintree, MA	03		90	60	30	10	10	10	<b>!</b>						<b>.</b>	l	L					1	-			1	<u> </u>	<u>                                     </u>	<u> </u>
BAE Systems, Braintree, MA	04		142	0	142				١.			16	16	16	16	15	15						1	1	1	1	₩		<u> </u>
BAE Systems, Braintree, MA	05 06		160 210	0	160 210				Α						<b>!</b>	1	1					1			1	1	₩	$\vdash$	<del> </del>
BAE Systems, Braintree, MA	00		210	U	210																		1				+		$\vdash$
ADC MK 4				7.0	_																								
BAE Systems, Braintree, MA BAE Systems, Braintree, MA	03 04		70 116	70 0	0 116				<b>!</b>			15	15	14	40	12	10					1			1	1	₩	$\vdash$	<del> </del>
BAE Systems, Braintree, MA BAE Systems, Braintree, MA	04		116	0	116				Α			15	15	14	12	12	12						-			1	+		<del>                                     </del>
BAE Systems, Braintree, MA	06		144	0	144				_																	1	+		
HARDWARE CONTINUED ON P21(1)																											$\perp$		
HARDWARE CONTINUED ON P21(1)			1																				1			1	+	$\vdash$	$\vdash$
Remarks:																													

P-1 SHOPPING LIST 37 DD Form 2445, JUL 87 Previous editions are obsolete PAGE 6 311 / 244

FY 2004/05 BUDGET PRODUC	TION	SCH	EDUL	E, P-2	1													DATE			FE	BR	UAR	Y 2	004					
APPROPRIATION/BUDGET AC OTHER PROCUREMENT,	TIVIT	1		,									Weapon System					P-1 ITEM NOMENCLATURE												
							Pro	duction	on R	ate		Procuremen						nt Leadtimes												
		Mar	ufactu	ırer's								Α	LT F	rior	ΑL	ТА	fter	Initial Reorder									Uı	nit of		
Item	1	Name	and L	ocatio	n	М	SR	1-8	3-5	M	AX	to Oct 1				Oct 1		Mfg PLT		М	fg P	LT		Tota	al	Measure			9	
6" COUNTERMEASURES	BAF.	BRA	INTRE	F. MA	4		10	200		200											- 3									
LAUNCH TUBES			N DIE					400		400																				
ADC MK 2			NTRE				10	200		200		1			1															
GG MK 77	,		OENI	,	`		15	200		200		1																		
NAE BEACON			ENTU		Λ.		10	200		200		-																		
NAE BEACON	ALLII	ΞD , V	'EN I C	JKA U	А		10	200		200	'	-			-															
										FISC	AL YE	EAR 2	2003									FI	SCAL	YEAF	R 200	14				
ITEM / MANUFACTURER	F	S	Q	D	В		2002				C	ALEN	DAR \	EAR 2	003			2	003				C	ALEN	IDAR	YEAR	2004			
	Υ	V	Т	Е	Α	0	N	D	J	F	М	Α	М	J	J	Α	S	0	Ν	D	J	F	М	Α	М	J	J	Α	S	В
		С	Υ	L	L	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	С	0	Е	Α	Е	Α	Р	Α	U	U	U	Е	A L
						Т	V	С	N	В	R	R	Υ	N	L	G	Р	T	٧	С	Ν	В	R	R	Υ	N	L	G	Р	_
ADC MK 2 MOD 1																														
NSWC/CRANE	03		254	0	254									Α										26	26	26	26	25	25	100
BAE Systems, Braintree, MA	04		370	0	370																Α									370
BAE Systems, Braintree, MA	05		487	0	487																									487
BAE Systems, Braintree, MA	06		579	0	579																									579
LAUNCH TUBES																														
NRAD, SAN DIEGO, CA	03		160	0	160				Α						27	27	27	27	27	25										0
NRAD, SAN DIEGO, CA	04		258	0	258																Α					43	43	43	43	86
NRAD, SAN DIEGO, CA	05		272	0	272																									272
NRAD, SAN DIEGO, CA	06		354	0	354																									354
HARDWARE CONTINUED ON P21(3)																														
· ·												FISCA	I YE	AR 200	5									FIS	CAL \	YEAR	2006			
ITEM / MANUFACTURER	F	S	Q	D	В							FISCAL YEAR 2005 CALENDAR YEAR 2005					2005 C								2006			l		
TIEM / NUMBER OF OTHER	Y	V	T	E	A			1	١.	Ι_				1	1			- 1		_		_	1			T			S	В
	l '	ċ	Ý	L	L	O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J	J	A U	E	Α
						T	V	C	N	В	R	R	Y	N	L	G	P	Т	٧	C	N	В	R	R	Y	N	L	G	P	L
ADC MK 2 MOD 1	1								1																					1
NSWC/Crane	03		254	154	100	25	25	25	25						1	1							1		1					
BAE Systems, Braintree, MA	03		370	0	370				31		31	31	31	31	31	31	31													1
BAE Systems, Braintree, MA	05	1	487	0	487				A	1	٠.	<b>T</b>	٠.		ľ	-							1	1	1					1
BAE Systems, Braintree, MA	06		579	0	579																									
LAUNCH TUBES	1																								-					
NRAD, SAN DIEGO, CA	03		160	160	0				1							1	1						1		1					
NRAD, SAN DIEGO, CA	03		258	172	86	43	43																							l
NRAD, SAN DIEGO, CA	05		272	0	272	40	70		Α						45	45	45													l
NRAD, SAN DIEGO, CA	06		354	0	354				<b>1</b> '`						,0	10	,,,													l
HARDWARE CONTINUED ON P21(3)	1 ~~	1	504		554				1						1															l
Remarks:						-	·	-		-	-	-	-	·	-	1	1					1	1	-	-	-		1	1	-

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST 37
311/244 PAGE 7 Exhibit P-21 Production Schedule

NDC MK2   BAE_BRAINTREE   MA	FY 2004/05 BUDGET PRODUC			DULI	E, P-2	1													DATE			FE	BR	UAR	Y 20	004					
Production Rate					,									Weapon System																	
Rem	OTHER PROCUREMENT,	NAV	Υ																<u> </u>												
Item							Production Rate																								
COUNTERMEASURES   BAE, BRAINTREE, MA   10   20			Man	ıufactı	ırer's																									Unit (	of
AUNCH TUBES   NRAD, SAN DIEGO, CA   40   400   4			-										to	o Oct	t 1	(	Oct 1		Mfg PLT			Mfg PLT			Total				M	ure	
NDC MK2   BAE_BRAINTREE   MA	6" COUNTERMEASURES	BAE,	BRAI	NTRE	E, MA	4	1	0 :	200																						
ALIED   VENTURA CA   10   20	LAUNCH TUBES	NRAI	NRAD, SAN DIEGO, CA					0	400		400	)																			
SG MK 77	ADC MK 2	BAE,	BRAI	NTRE	E, MA	4	1	0 :	200		200	)																			
ITEM / MANUFACTURER	GG MK 77	UPC	UPCO, PHOENIX, AZ				1				200	)																			
ITEM / MANUFACTURER	NAE BEACON					1																									
ITEM / MANUFACTURER  F		, ,	, .					Ť																							
ITEM / MANUFACTURER  F								-			FISC	AL YE	AR 2	2003									FIS	CAL Y	FAR	2004				$\neg$	
Y	ITEM / MANUFACTURER	F	S	O	D	В	20	102	I		00				FAR 2	003											AR 2	2004			Ì
GGMK77  PCC, PHOENIX, AZ   04   258   0   258		Y	_								Е	1					^						Е				., 2	1	_		В
SMK 77										•					-				-			-					IJ	IJ			Α
SGMK77    SGMK																															L I
PFCO, PHOENIX, AZ	GG MK 77																											1	$\overline{}$		
PECO, PHOENIX, AZ	UPCO, PHOENIX, AZ	03		160	0	160					Α						15	15	15	15	15	15	15	15	15	15	10				0
A	UPCO, PHOENIX, AZ	04		258	0																							23	23	23	189
Alabera   Alab	UPCO, PHOENIX, AZ	05		272	0	272																									272
A	UPCO, PHOENIX, AZ	06		354	0	354																									354
A																													<u> </u>		<u> </u>
A						00=																						l	<b>-</b>		0.10
Allied Logistics, Ventura CA										Α															60	57	57	57	57	57	
ARDWARE CONTINUED ON P21(5)   S																						Α							+		
ITEM / MANUFACTURER  F S Q D B B C V C Y C Y C Y C Y C Y C Y C N B R R R Y N N L G P T V C N L G T V C N L G T																													+		
ITEM / MANUFACTURER  F S Q D B A C O N D B A C O N D B A C O N D D A D D D D D D D D D D D D D D D D	HARDWARE CONTINUED ON P21(5)	00		90	U	90																							+		90
ITEM / MANUFACTURER  F S Q D B 2004  V T T E A C O N D J F M A M J J J A S O N D J F M A U U U U E C O E A E A E A P A D N L G P  GG MK 77  IPCO, PHOENIX, AZ  IPCO, PHOENIX, AZ  O6	TIVILE WARE CONTINUED CIVI 21(0)										FISC	AL VE	AD 1	2005								EI	ISC AI	VEAG	200	6				o	
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GG MK 77  IPCO, PHOENIX, AZ  O3										•					-							•					J	J			
GG MK 77  IPCO, PHOENIX, AZ  O3																															L
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ARDWARE CONTINUED ON P21(5)										А																1		1	+		
		JU		90	U	90																						1	+		
	Remarks:										ı	ı											l		-	II.	I				

DD Form 2445, JUL 87

311 / 244

Previous editions are obsolete

PAGE 8 Exhibit P-21 Production Schedule

	BUDO	SET ITE	M JUSTIFIC	ATION SHEE	T		DATE:									
			P-40				February 2004									
APPROPRIATION/BU	JDGET ACTIVIT	Υ		P-1 ITEM NOMENCLATURE												
OTHER PROCURE	MENT, NAVY		BA-2	SURFACE SHIP TORPEDO DEFENSE 221300/221305												
Program Element for	Code B Items:			Other Related Program Elements												
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total					
	Tears	Code	FT 2003	F1 200 <del>4</del>	F1 2005	F1 2000	F1 2007	F1 2000	F1 2009	Complete	Total					
QUANTITY				21	60	58	21	0	1	106	267					
COST (In Millions)	\$0.000		\$0.000	\$13.725	\$22.273	\$28.411	\$8.406	\$0.281	\$4.467	Cont.	Cont.					
SPARES COST (In Millions)								·	·							

## SURFACE SHIP TORPEDO DEFENSE

The Surface Ship Torpedo Defense (SSTD) System is comprised of two major systems. The AN/SLQ-25A (NIXIE) towed acoustic countermeasure system has recently been upgraded to enhance ship survivability against the torpedo threat. The recent upgrades include a more reliable power amplifier (EC9), COTS Signal Generator (EC10) with new operational capability, an enhanced EC16 capability, a new littoral cable for operation in shallow water, and associated upgraded "C" winch to accommodate the littoral cable. The funding stream provide for the FY 04-07 procurement and installation of this new capability on the majority of surface ship classes in the Navy. The second major system is the AN/WSQ-11 Torpedo Defense System comprised of an active (High Power Source) and passive (ACI) towed arrays and associate DCL Processor (Tripwire System) to detect and provide command orders for the launch of the associated hardkill Anti-Torpedo Torpedo (ATT). The procurement funding stream provides for procurement beginning in FY09 of AN/WSQ-11 Tripwire EDM shipsets for test and evaluation.

P-1 SHOPPING LIST 38 Page No. 1 CLASSIFICATION:

# **UNCLASSIFIED**

	WEAPONS SYSTEM COS P-5	Weapon Syst	em		DATE: February 2004											
Other P	PRIATION/BUDGET ACTIVITY  Procurement, Navy					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD  Surface Ship Torpedo Defense (C2WL/H2WL)									
BA-2: \$	Surface Ship Torpedo Defense 0204228N 221300/2	221305	TOTAL 000T !!		05 0011 400		Surface Shi	p Torpedo [	Defense (C2W	/L/H2WL)						
			TOTAL COST I	N THOUSANDS	OF DOLLARS											
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	Expeditionary Warfare N75															
WL101	AN/SLQ-25A Upgrade Kits	Α				0	9	Various	3,642	15	Various	3,584				
WL927	Install	А				0	9	Various	799	15	Various	786				
WL830	Production Engineering - In House	А				0			350			513				
WL900	Production Engineering - Out House	Α				0			75			75				
	Total N75					0			4,866			4,958				
	Ship Programs N76															
WL101	AN/SLQ-25A Upgrade Kits	Α				0	7	Various	1,337	41	Various	9,559				
	* DEC	Α				0			2,550			0				
WL927	Install	Α				0	7	Various	292	41	Various	1,400				
WL830	Production Engineering - In House	Α				0			225			400				
WL900	Production Engineering - Out House	Α				0			75			75				
	Total N76					0			4,479			11,434				
	Aircraft Carrier Programs N78															
WL101	AN/SLQ-25A Upgrade Kits	Α				0	5	Various	3,262	4	Various	4,678				
WL927	Install	Α				0	5	Various	818	4	Various	806				
WL830	Production Engineering - In House	А				0			250			347				
WL900	Production Engineering - Out House	А				0			50			50				
	Total N78					0			4,380			5,881				
	Total OPN					0			13,725			22,273				

DD FORM 2446, JUN 86 P-1 SHOPPING LIST 38 CLASSIFICATION:

PAGE NO. 2

#### CLASSIFICATION:

## **UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTO</b>	RY AND PLAI	NNING EX	(HIBIT (P-5A)		Weapon System		A. DATE			
									February 2004	4
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NOM				SUBHEAD (C2WL/H2W	/L)
			-		Surface Sh	ip Torpedo Defense	-			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COS I (000)	LOCATION UF PCU	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	REVISIONS AVAILABLE
FY04										
AN/SLQ-25A Upgrade Kits - WL101	21	Var	NAVSEA	N/A	SS/FFP	St Production, Farmingdale NJ	01/04	04/04	N/A	N/A
FY05 AN/SLQ-25A Upgrade Kits - WL101	60	Var	NAVSEA	N/A	SS/FFP	St Production, Uniontown PA	01/05	04/05	N/A	N/A
D. REMARKS										

AN/SLQ-25A Upgrade Kits unit cost will vary due to 11 various configurations. (Variations occur within ship classes).

#### CLASSIFICATION

EXHIBIT P-40, BUDGET IT	EM JUSTIFIC	CATION						DATE		Febr	uary 2004
APPROPRIATION/BUDGET ACTIVITY DP,N - BA2 COMMUNICATIONS & EL		PMENT				ENCLATURE B wed Array Sensor			SUBHEAD 72VG		
			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY											
COST (in millions)			\$19.9	\$15.1	\$7.2	\$3.8	\$0.4	\$1.2	\$1.4	Continuing	Continuing

PROGRAM COVERAGE: Surveillance Towed Array Sensor System (SURTASS) is the mobile, tactical and strategic arm of the Navy's undersea surveillance capability that provides deep ocean and littoral acoustic detection and cueing for tactical weapon platforms against both diesel and nuclear submarines as well as surface vessels in any given Area of Operations worldwide. Dedicated ASW T-AGOS ships tow long acoustic arrays that collect acoustic data and relay that data to shore facilities via SHF satellites for processing and fusion of the resulting contact data with other sensors. Following TPOM 04 there are five T-AGOS ships with two system configurations operating in the Pacific area. Beginning in FY04, ship configurations will consist of the following: (1). Three T-AGOS Small Waterplane Area Twin Hull (SWATH) ships that were SCN funded in FY87 through FY89. This ship class utilizes the Next Evolution Signal Processing and Display System that was developed in 1997 and the Acoustic Rapid COTS Insertion (IUSS) signal processing and display system that was developed in 2002 and is common with the SSN Sonar Processing System. The RDA and A180R arrays provide improved detection and classification capability and allow those ships equipped with it to operate in a bi-static mode with the other active T-AGOS platforms that are equipped with the Low Frequency Active (LFA) system; and, (2). Two Low Frequency Active (LFA) equipped ships including the first "large" SWATH ship, T-AGOS 23 USNS IMPECCABLE, that was delivered in FY01, and the CORY CHOUEST. Both the CORY CHOUEST and T-AGOS 23 are configured with the Next Evolution Processing and Display system and both are equipped with the Low Frequency Active (LFA) capability. The active capability provides greatly improved detection against diesel submarines as well as the quiet nuclear submarine threat. In addition to the five T-AGOS ships above, two shore sites are configured with the Next Evolution processing and display and ARCI suites to receive the T-AGOS acoustic data via SHF satellite communication links. Major upgrades to these platforms and shore sites in FY02 through FY04 include TB-29 Twinline Arrays, Acoustic Rapid COTS Insertion (IUSS) (ARCI) processing and display upgrade that provide improved common ship processing suites for twinline arrays and Communication C4I upgrades that include the new SHF AN/WSC-6(V)7 terminals with seven foot antennas, INMARSAT B and ADNS in FY04. A cost sharing agreement with Japan also provides a shore site and two Japanese SWATH ships with similar capability to the T-AGOS SWATH ships for the Western Pacific region. The Japanese Auxiliary Ocean Surveillance Ship (JAOS) SWATH ships have been upgraded with the Next Evolution computer processing and display suites in FY98 and FY99 and currently utilize the original Production Baseline Arrays. Under the cost sharing agreement, the JAOS ships are being upgraded with the newer twinline A180R passive receiving arrays funded in FY00 and FY01. This budget includes the outfitting of a third J-AOS SWATH ship in FY05 with an ARCI processing and display system and a new Twinline array.

SURTASS OPN funded subheads include: VG006 which provides for procurement and upgrade of existing arrays with the submarine common, SURTASS version of the TB-29A Twinline Array through FY04, ship ARCI trainers/configuration control modules (CCM) in FY03 and Communication/C4I Refresh upgrades through FY06. VG006 procurements beyond FY04 include ARCI processing and display suite for J-AOS 3 in FY05, refresh technology suites for communications/C4I suites in FY06. VG007 provides for procurement of field change kits resulting from in-service improvements of communications equipment, arrays, processing and display equipment and supporting systems. VG010 provides for procurement of ARCI upgrade of ship and shore site signal processing and display suite electronics in FY03 VG776 provides for non-FMP installation of equipment.

Exhibit P-40, Budget Item Justification

#### CLASSIFICATION

EXHIBIT P-40, BUDGET ITEM JUSTIFICATION (Continued)	DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE BLI 2237	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Surveillance Towed Array Sensor (SURTASS)	72VG
	. , ,	

JUSTIFICATION OF BUDGET YEAR (FY04 & FY05): FY04 - Procurement of two twinline arrays to provide improved and common directional arrays for Indications and Warning (I&W) deepwater strategic and littoral missions. Field Change / Modifications replace aging / unsupportable shipboard equipment. Installation funding provides for installation of applicable equipment being installed in FY04. FY05- JAOS 3 array and processing suite are required for new construction JAOS SURTASS third platform. J-AOS 3 is cost share and funding is required for FY07 IOC. Field Change/Modifications replace aging/unsupportable shipboard equipments. Installation funding provides for installation of applicable equipment being installed in FY05. FY04-Procurement of ARCI Processing and display upgrade for JAOS 1 to improve performance and replace obsolescent equipment. FY05- Procurement of ARCI processing and display upgrade for JAOS 2 to improve performance and replace obsolescent equipment.

INSTALLATION AGENTS: SSC Charleston, SSC San Diego, and General Dynamics, Anaheim Hills, CA.

MODIFICATION SUMMARY (\$M)

Listed below are the costs for equipment being procured by BLI 2237 that have associated installation costs budgeted.

EQUIPMENT	FY03	FY04	FY05
Block Upgrade (J-AOS 1 & 2)	0.77	0.34	0.31
J-AOS 3 Array & Processing Suite	0.00	0.00	5.92
Twinline Arrays	12.13	13.27	0.00
Trainers/CCM	2.17	0.00	0.00
Communication/C4I Upgrade	0.78	0.39	0.00
Communication/C4I Upgrade Refresh Technolog	0.00	0.00	0.00
Transformational Low Frequency Active	0.00	0.00	0.00
Field Changes/Modifications	0.50	0.68	0.35
ARCI Ship Electronics	0.00	0.00	0.00
ARCI Ship Electronics Refresh Technology	0.00	0.00	0.00
ARCI Shore Electronics	1.60	0.00	0.00
ARCI Shore Electronics Refresh Technology	0.00	0.00	0.00

Exhibit P-40, Budget Item Justification Unclassified Classification

#### CLASSIFICATION

EXHIBIT P-40, BUDGET ITEM JUSTIFICATION (Continued)	DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE BLI 2237	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Surveillance Towed Array Sensor (SURTASS)	72VG

#### Specific procurements by FY include:

#### FY03: Funds are required for the following:

VG006 Twinline array provides two improved and common directional array for Indications and Warning (I&W) deepwater strategic missions and littoral missions.

Communications/C4I Upgrade provides two SHF WSC-6(V)7 terminals for network centric connectivity to BG. ARCI trainers at IOSC and SUBTRAFAC provide operation & maintenance training for MILDET and SURTASS ship personnel. ARCI processing and display upgrade for ASWC to support JAOS 1 and JAOS 2. ARCI Configuration Control Model (CCM) provides an ARCI signal processing. and display suite at the software support activity

VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, replacement of aging/unsupportable equipment.

VG010 ARCI processing and display upgrades provide two shore site processing and display suites.

VG776 Installation of equipment.

#### FY04: Funds are required for the following:

VG006 Twinline array provides two improved and common directional arrays for Indications and Warning (I&W) deepwater strategic missions and littoral missions.

ARCI Processing and display upgrade for JAOS 1. Communications / C4I upgrades provide for five SHF Bandwidth Efficient Modems and one ADNS.

VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, and replacement of aging/unsupportable equipment. VG776 Installation of equipment.

#### FY05: Funds are required for the following;

VG006 ARCI Processing and display upgrade for JAOS 2. JAOS 3 Array and Processing Suite provides a twinline array and processing suite for new construction JAOS Swath platform VG007 Field Changes/Modifications provide for correction of deficiencies identified by Fleet use, array support equipment, communication equipment, and replacement of aging/unsupportable equipment. VG776 Installation of equipment.

Exhibit P-40, Budget Item Justification Unclassified Classification

											DATE				
EXHIBIT F	2-5, COST ANALYSIS													Februa	ry 2004
APPROPR	ATION ACTIVITY							P-1 ITEM NO	MENCLATU	RE BL	2237		SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	•						Surveillance						72VG	
										L COS	T IN THOUS		OLLARS		
			PY		FY 2002			FY 2003			FY 2004			FY 2005	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
VG006	UPGRADE PROCUREMENT							205			0.44	0.1.1		000	201
	Block Upgrade/ARCI (ASWC and J-AOS 1 & 2)	A					2	385	770	1	344	344	1	306	306
	J-AOS 3 Array & Processing Suite	A		_	•	•	_	0.005	10.100		0.000	40.000	1	5,920	5,920
	Twinline Arrays	A		0	0	0	2	6,065	12,130	2	6,633	13,266			
	Trainers/CCM (Note 1)	A			_	^	3	723	2,169	_	77	207			
	Communication/C4I Upgrades (Note 2)	A			U	U	2	390	780	5	77	387			
	Communication/C4I Upgrades Refresh Technology	Α													
	LFA Technology Refresh														
	Transformational Low Frequency Active	Α													
VG007	FIELD CHANGES/MODIFICATIONS	А							497			679			350
VG010	ELECTRONICS UPGRADE														
	ARCI Ship Electronics	Α													
	ARCI Ship Electronics Refresh Technology	Α													
	ARCI Shore Electronics	Α		0	0	0	2	797	1,594						
	ARCI Shore Electronics Refresh Technology	Α													
VG776	INSTALLATION OF EQUIPMENT								2,002			438			590
	NON-FMP Ship Installation								1.717			340			590
	NON-FMP Shore Installation								285			98			555
	TOTAL CONTROL					0			19,942			15,114			7,166
Remarks:												,			•
	FY03 Trainers/CCM line in VG006 funds ARCI Trainers a									erage c	ost.				
(2)	Communication/C4I Upgrades. FY03: SHF (V)7 Termina	ls. FY04	provides fo	or 5-ea SH	IF Bandw	dth Efficie	nt Mode	ems and 1-ea	ADNS.						

								A. DATE		
EXHIBIT P-5a, PROCUREMENT HISTORY AND PLA	ANNING								Februa	ry 2004
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITE	M NOMENCLAT	URE BLI 2237		1	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Surveilland	e Towed Array	Sensor (SURTASS)			72VG	
ELEMENT OF COST	QTY	UNIT	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTÓR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY03										
UPGRADE PROCUREMENT										
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	2	385	SPAWAR/NAVSEA		CPAF/OP	General Dynamics-AIS	Jul-03	Jul-04	Yes	n/a
J-AOS 3 Array & Processing Suite										
Twinline Arrays	2	6,065	NAVSEA		CPFF/OP	Lockheed Martin	Dec-02	Dec-04	Yes	n/a
Trainers/CCM	3	723	SPAWAR		CPAF/OP	General Dynamics-AIS	Dec-02	Nov-03	Yes	n/a
Communication/C4I Upgrades	2	390	Various		Various	Various	Various	Various	Yes	n/a
Communicatiion/C4I Upgrades Refresh Technology										
LFA Technology Refresh										
Transformational Low Frequency Active										
FIELD CHANGES/MODIFICATIONS										
ELECTRONICS UPGRADE										
ARCI Ship Electronics										
ARCI Ship Electronics Refresh Technology										
ARCI Shore Electronics	2	797	SPAWAR		CPAF/OP	General Dynamics-AIS	Dec-02	Aug-03	Yes	n/a
ARCI Shore Electronics Refresh Technology						-		_		
							1			
		_1		1			1	l	<u> </u>	

								A. DATE		
EXHIBIT P-5a, PROCUREMENT HISTORY AND PI	LANNING								Februa	ary 2004
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITE	M NOMENCLATI	JRE BLI 2237			SUBHEAD	
OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Surveillanc	e Towed Array S	Sensor (SURTASS)			72VG	
ELEMENT OF COST	QTY	UNIT	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY04			31.1.2		<u> </u>				11411	
UPGRADE PROCUREMENT										
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	1	344	SPAWAR		CPAF/OP	General Dynamics-AIS	Sep-04	Sep-05	Yes	n/a
J-AOS 3 Array & Processing Suite						,				
Twinline Arrays	2	6,633	NAVSEA		CPFF/OP	Lockheed Martin	Jun-04	Jun-06	Yes	n/a
Trainers/CCM										
Communication/C4I Upgrades	5	77	Various		Various	Various	Various	Various	Yes	n/a
Communicatiion/C4I Upgrades Refresh Technology										
LFA Technology Refresh										
Transformational Low Frequency Active										
FIELD CHANGES/MODIFICATIONS							L			
ELECTRONICS UPGRADE										
ARCI Ship Electronics										
ARCI Ship Electronics Refresh Technology										
ARCI Shore Electronics										
ARCI Shore Electronics Refresh Technology										
Notes:										

								A. DATE		
EXHIBIT P-5a, PROCUREMENT HISTORY AND PL	ANNING								Februa	ary 2004
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEN	I NOMENCLATU	RE BLI 2237		1	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Surveillance	Towed Array So	ensor (SURTASS)			72VG	
ELEMENT OF COST	QTY	UNIT	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST Delivery	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABL
FY05										
UPGRADE PROCUREMENT										
Block Upgrade / ARCI (ASWC and J-AOS 1 & 2)	1	306	SPAWAR		CPAF/OP	General Dynamics-AIS	Sep-05	Sep-06	Yes	n/a
J-AOS 3 Array & Processing Suite	1	5,920	SPAWAR		CPAF/OP	General Dynamics-AIS/IOSC	Oct-04	Jul 05 and Aug 06	Yes	n/a
Twinline Arrays										
Trainers/CCM									<u> </u>	
Communication/C4I Upgrades										
Communicatiion/C4I Upgrades Refresh Technology									<u> </u>	
LFA Technology Refresh										
Transformational Low Frequency Active										
FIELD CHANGES/MODIFICATIONS										
ELECTRONICS UPGRADE										
ARCI Ship Electronics										
ARCI Ship Electronics Refresh Technology										
ARCI Shore Electronics			•							
ARCI Shore Electronics Refresh Technology										

MODIFICATION TITLE: Block Upgrade / ARCI (ASWC and J-AOS 1 & 2) February 2004

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: JAOS Shore (ASWC/SES) and JAOS Ship (J-AOS 1 & J-AOS 2)

DESCRIPTION/JUSTIFICATION: J-AOS SURTASS upgrades to ARCI Baseline on a cost share basis is planned so that software is common with US. In FY03 ASWC / SES shore upgrades will be procured. In FY04 and FY05, J-AOS 1 and J-AOS-2 will

be procured respectively. FY03 Installation funding installs two A-180R Twinline Arrays on J1 and J2. N/A

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ IN MIIIIONS)				Pric	or Yrs	FY	03	FY	04	FY	05	FY	06		07		Y08		-Y09		<u>гс</u>	Tot	<u>.al</u>
RDT&E		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 0.000	\$ 0.00
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other				1.000	2.035	2.000	0.770	1.000	0.344	1.000	0.306											0.000 0.000 0.000 0.000 5.000 0.000 0.000 0.000 0.000 0.000	0.00 0.00 0.00 0.00 3.46 0.00 0.00 0.00 0.00 0.00
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP						1.000	0.050 0.050	2.000	0.100	1.000	0.050	1.000	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 5.000 0.000 1.000	0.00 0.25 0.00 0.05
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY TC EQUIP						1.000	0.000	2.000	0.100	1.000	0.050	1.000	0.050									2.000 1.000 1.000 0.000 0.000 0.000 0.000	0.10 0.05 0.05 0.00 0.00 0.00 0.00
TOTAL INSTALLATION COST				0.000	0.000	1.000	0.050	2.000	0.100	1.000	0.050	1.000	0.050		0.000	0.000	0.000	0.000		0.000	0.000	5.000	0.25
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:				1.000	2.035	2.000	0.820	1.000	0.444 ADMINI	1.000 STRATIVE LE	0.356	0.000	0.050	0.000 2 Months	0.000	0.000	0.000 CTION LI	0.000		0.000 12 Mon	0.000	5.000	3.71
									/ CIVIII VI		AD THAL									12 111011	1110		
CONTRACT DATES:		FY 2002:				FY 2003:		Jul-03		FY2004:		Sep-04		FY2005:		Sep-05							
DELIVERY DATES:		FY 2002:				FY 2003:		Jul-04		FY2004:		Sep-05		FY2005:		Sep-06							
INSTALLATION SCHEDULE:	PY	1	2	FY04 3	4	_	1	2	<u>FY 05</u> 3	4	=	1	2	<u>FY 06</u> 3	4	_		1	2	FY 07 3	4		
INPUT	1				2					1					1								
OUTPUT	1				2					1					1								
INSTALLATION SCHEDULE:		1	2 <u>FY</u>	<u>08</u> 3	4	_	1	2	FY 09 3	4	-	TC	_		TOTAL								
INPUT															5								
OUTPUT															5								

One of the two items procured in FY03 does not require installation funds. The second item will be funded and installed in FY04

P-3a IMP Item No. 40-8 of 40-16

MODIFICATION TITLE: JAOS #3 Array and Processing Suite February 2004

COST CODE: VG006
MODELS OF SYSTEMS AFFECTED: JAOS S

JAOS Ship #3 Processing and Display Suite and Array

DESCRIPTION/JUSTIFICATION: JAOS Ship #3 provides a ship processing and display suite and a Twinline Array in FY05 for a new construction Japanese vessel. Installation will be initiated in FY05 in accordance with shippard building plans. OPN data is US

Cost Share

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)

				Prio	r Yrs	FY	′ 03		04		′ 0 <u>5</u>	FY	06		<u> 107</u>		<b>408</b>		<b>′</b> 09	<u>T</u>	C	Tota	<u>al</u>
		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Installation Kits Installation Kits Nonrecurring Equipment Equipment Ponrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP						0.000	0.000	0.000	0.000	0.000	5.920	1.000	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.270 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST				0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 5.920	1.000	0.270 0.270		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000 0.000 1.000	0.000 0.000 0.000 0.270 6.190
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		-		0.000	0.000	0.000	ADMINIS <sup>-</sup>				5.920 1 mos.	0.000			TION LEA		0.000			0.000 0 mos. Sh			6.190
WETHOD OF INIT LEWENTATION.		1					ADMINIO	IIIVAIIVE	LADIIIVIL		111103.			TRODUC	TION LLA	DIIIVIL.		Only Lieu	uonica - i	0 11103. 01	iip Airay -	24 11103.	
CONTRACT DATES:		FY 2002:				FY 2003:				FY2004:				FY2005:	Oct-04								
DELIVERY DATES:		FY 2002:		FY04		FY 2003:			FY 05	FY2004:				FY2005: FY 06	Jul-05;Aug	<b>j-06</b>				FY 07			
INSTALLATION SCHEDULE:	PY	1	2	3	4	-	1	2	3	4	-	1	2	3	4			1	2	3	4		
INPUT														1									
OUTPUT																							
INSTALLATION SCHEDULE:		1	2 <u>FY</u>	<u>08</u> 3	4	_	1	2 <u>FY</u>	3	4	_		TC	_		TOTAL							
INPUT																1							
OUTPUT		1														1							

#### Notes/Comments

<sup>(1)</sup> FY05 Funds required to facilitate electronics suite preparation during array manufacturing timeline. Additional delay due to ship availability.

The J-AOS 3 System consists of two major subcomponents procured from two separate contractors. Full delivery is defined as both part being simultaneously available. The installation of the JAOS #3 equipment will begin in late FY06 and be completed in 1st Qtr FY07.

Notes/Comments:

MODIFICATION TITLE: Twinline Arrays February 2004

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: The Twinline is a shallow water variant of the common array that is being produced by NAVSEA. The array consists of 2 short array lengths and is designed for increased surveillance capability in high clutter

environments and littoral areas. The inventory objective for the Common Twinline Array is 5 arrays.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	Otv	•		ior Yrs		03		<u>′ 04</u>	FY.			<u>06</u>		Y07		<u>80/</u>		<u>/09</u>	I Qty	<u>C</u>	Tot	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment	<u>Qty</u>	\$	1.000	7.200	2.000	12.130	2.000	13.266	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 0.000 0.000 0.000 0.000 0.000 5.000 0.000 0.000 0.000 0.000 0.000	\$ 0.000 0.000 0.000 0.000 0.000 32.596 0.000 0.000 0.000 0.000 0.000
Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 10 EQUIP FY 10 EQUIP			0.000	0.000	0.000	0.000	0.000	0.000	3.000 1.000 2.000	0.450 0.150 0.300	2.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000 5.000 1.000 2.000 2.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.750 0.000 0.150 0.300 0.300 0.000 0.000 0.000 0.000 0.000
TOTAL INSTALLATION COST			0.000	0.000	0.000	0.000	0.000	0.000	3.000	0.450	2.000	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.750
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			1.000	7.200	2.000	12.130 ADMINIS	2.000	13.266 LEADTIN	0.000	0.450	0.000 2 months	0.300	0.000	0.000 CTION LE	0.000	0.000 21 to 24 r	0.000	0.000	0.000	0.000	5.000	33.346
						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												porturing	total ba	.,		
CONTRACT DATES:	FY 20	02:			FY 2003:		Dec-02			FY2004:		Jun-04		FY2005:								
DELIVERY DATES:	FY 20	02:			FY 2003:		Dec-04			FY2004:		Jun-06	;	FY2005:								
INSTALLATION SCHEDULE: PY INPUT OUTPUT	1	2	FY04 3	4	_	1 1 1	2 1 1	FY 05 3	4	_	1	2	FY 06 3	4 1 1	-		1	2	<u>FY 07</u> 3	4		
INSTALLATION SCHEDULE:	1	2 <u>E</u>	<u>3</u>	4	_	1	2 <u>F</u>	<u>Y 09</u> 3	4	_			TC	_		TOTAL 5						
OUTPUT																5						

MODIFICATION TITLE: Trainers/Configuration Control Model (CCM)

February 2004

COST CODE: VG00 MODELS OF SYSTEMS AFFECTED: SUR

/G006

SURTASS Shore Trainers and Configuration Control Model (CCM)

DESCRIPTION/JUSTIFICATION:

The ARCI trainer suite at IOSC, Norfolk VA., in FY03 will provide operation and maintenance training for MILDET and SURTASS ship personnel. The ARCI SUBTRAFAC Trainer in FY03 will provide operations and maintenance

training for SURTASS shore and MILDET personnel. The FY03 ARCI configuration Control Model (CCM) at the SURTASS software developer's lab will provide a hardware suite for software maintenance and test purposes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																							
		Otv	e		or Yrs		03		<u>′ 04</u>		Y 05	FY Otv			<u>/07</u>		<u>408</u>	FY Oty			<u>C</u>	Otv Tot	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP		Qty	\$	O.000	0.000	3.000 2.000 2.000	\$ 2.169 0.129 0.129	1.000 1.000	0.098	Qty 0.000	0.000	O.000	0.000	O.000	0.000	O.000	0.000	0.000 0.000	0.000	Qty	\$	Oty O.000	\$ 0.000
TOTAL INSTALLATION COST				0.000	0.000	2.000	0.129	1.000	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.000	0.000
TOTAL PROCUREMENT COST				0.000	0.000	3.000	2.298	0.000	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.000	2.396
METHOD OF IMPLEMENTATION:							ADMINIS <sup>-</sup>	TRATIVE L	EADTIME	:		1 month		PRODUC	TION LEA	ADTIME:		10 months					
CONTRACT DATES:		FY2002:				FY 2003:		Dec-02	Jun-03		FY2004:				FY2005:								
DELIVERY DATES:		FY2002:				FY 2003:		Nov-03	Apr-04		FY2004:				FY2005:								
INSTALLATION SCHEDULE:	PY	1	2	FY04 3	4	<del>-</del>	1	2	FY 05 3	4	<del>-</del>	1	2	FY 06 3	4	_		1	2	FY 07 3	4		
INPUT		1	1	1																			
OUTPUT		1	1	1																			
INSTALLATION SCHEDULE:		1	2 2	<u>3</u>	4	_	1	<u>FY</u> 2	<u>′ 09</u> 3	4	_		TC	-		TOTAL							
INPUT																3							
OUTPUT Notes/Comments																3							

The reported 2 contract and delivery dates for FY03 are due to exercising 2 separate contract options resulting in 2 separate schedules.

MODIFICATION TITLE: Communications/C4I Upgrades

N/A

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: Communication/C4I Upgrades provides IT-21 communications upgrades for SURTASS ships for improved network centric connectivity to deploying Battle Groups. FY 03 provides SHF WSC-6 (V)7

terminal, ADNS, and integration of suites. FY04 provides for 5-ea SHF Bandwidth Efficient Modems and 1-ea ADNS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																_		_		_		_	
	I	Qty	\$	Prio Qty	<u>r Yrs</u> \$	Qty	<u>03</u> \$	L Qty	<u>04</u> \$	Qty	<u>05</u> \$	FY Qty	<u>06</u> \$	<u>FY</u> Qty	<u>07</u> \$	Qty	<u>Y08</u> \$	Qty	<u>/09</u> \$	Qty 1	<u>C</u> \$	To: Qty	<u>tal</u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment		· · ·	•	3.000	2.630	2.000	0.780	5.000			·	2.9	*		Ť		Ť		•		Ţ	0.000 0.000 0.000 0.000 0.000 10.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 3.797 0.000 0.000 0.000
Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST				3.000	2.070	2.000	1.100		0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000 0.000 10.000 3.000 2.000 5.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 3.370 0.000 2.070 1.100 0.200 0.000 0.000 0.000 0.000 0.000 0.000
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	Į			3.000	4.700	2.000	1.880 ADMINIS	5.000		0.000	0.000	0.000	0.000	0.000 PRODUC	0.000	0.000		0.000	0.000	0.000	0.000	10.000	7.167
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								LADIIIII							
CONTRACT DATES:			FY2002:	,	Various		FY2003:			Various			FY2004	:	Various		FY2005:				FY2006:		
DELIVERY DATES:			FY2002:	,	Various		FY2003:			Various			FY2004	:	Various		FY2005:			I	FY2006:		
INSTALLATION SCHEDULE:	_PY	1	2	FY04 3	4		1	2	FY 05 3	4		1	2	<u>FY 06</u>	4			1	2	<u>FY 07</u>	4		
INPUT	5				5																		
OUTPUT	5				5																		
INSTALLATION SCHEDULE:		1	<u>FY 0</u> 2	<u>)8</u> 3	4		1	<u>FY</u> 2	<u>09</u> 3	4		TC	_		TOTAL								
INPUT															10								
OUTPUT															10								

February 2004

MODIFICATION TITLE: Communications/C4I Upgrade Refresh Technology

COST CODE: VG006

MODELS OF SYSTEMS AFFECTED: SURTASS TAGOS Ships

DESCRIPTION/JUSTIFICATION: Communications/C4I Upgrade Refresh Technology upgrades existing GCCS-M 3.1.1.2 Hardware/Software to GCCS-M 4.0 in FY06.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

				r Yrs	FY			<u> </u>		Y 05	FY		<u>FY</u>			Y08		Y09		TC	<u>To</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other	Qty	\$	Qty	<b>\$</b>	Qty	\$	Qty	\$	Qty	\$	5.000	1.072	Qty	\$	Qty	\$	-	-	Qty	<b>\$</b>	0 0 0.000 0.000 0.000 5.000 0.000 0.000 0.000 0.000	\$ 0.00 0.00 0.000 0.000 0.000 1.072 0.000 0.000 0.000 0.000 0.000 0.000
Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.873	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 5.000 0.000 0.000 0.000 0.000 0.000 5.000 0.000 0.000	0.000 0.000 0.873 0.000 0.000 0.000 0.000 0.873 0.000
FY 08 EQUIP FY 09 EQUIP																					0.000	0.000
FY TC EQUIP																					0.000	0.000
TOTAL INSTALLATION COST			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.873		0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.873
TOTAL PROCUREMENT COST			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	1.945	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	1.945
METHOD OF IMPLEMENTATION:								ADMINIS	STRATIVE	LEADTIME:			2 Months		PRODUC	CTION LEA	ADTIME:		FY06 G	CCS-M -	10 Months	
CONTRACT DATES:	FY 2002:				FY 2003:				FY2004:				FY2005:			FY2006:		Oct-05	5			
DELIVERY DATES:	FY 2002:				FY 2003:				FY2004:				FY2005:			FY2006:		Aug-06	6			
INSTALLATION SCHEDULE: PY	1	2	FY04 3	4		1	2	<u>FY 05</u> 3	4		1	2	FY 06 3	4			1	2	FY 07 3	4	_	
INPUT														5								
OUTPUT														5								
INSTALLATION SCHEDULE:	1	<u>FY 0</u> 2	<u>8</u> 3	4		1	2 2	<u>/ 09</u> 3	4		тс	=		TOTAL 5								
OUTPUT							P3a IM	IP Item N	o. 40-13 of	40-16				5								
Notes/Comments																						_

MODIFICATION TITLE: Field Changes/Modifications

FY 03

COST CODE: VG007

MODELS OF SYSTEMS AFFECTED: SURTASS T-AGOS Ship and Shore Facilities

DESCRIPTION/JUSTIFICATION: Field Changes/Modifications for correction of deficiencies identified by Fleet use, array support, communications equipment and replacement of aging/unsupportable equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

Prior Yrs

FINANCIAL PLAN: (\$ in millions)

	L	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty .	\$	Qty .	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						0	0.00
PROCUREMENT:																						0	0.00
Kit Quantity				7.000	0.482	F 000	0.497	5 000	0.679	0.000	0.050	40.000	0.960	0.000	0.340	40.000	0.040	40.000	4.000			0 55	0.00 5.22
Installation Kits Installation Kits Nonrecurring				7.000	0.482	5.000	0.497	5.000	0.679	6.000	0.350	10.000	0.960	2.000	0.340	10.000	0.912	10.000	1.000			55 0	0.00
Equipment																						0	0.00
Equipment Nonrecurring																						0	0.00
Engineering Change Orders																						0	0.00
Data																						0	0.00
Training Equipment																						0	0.00
Support Equipment																						0	0.00
Other																						0	0.00
Interim Contractor Support																						0	0.00
Installation of Hardware				7.000	0.170	5.000	0.360	5.000	0.090	6.000	0.090	10.000	0.300	2.000	0.105	10.000	0.254	10.000	0.380			55	1.75
PRIOR YR EQUIP																						0	0.00
FY 02 EQUIP				7.000	0.170																	7	0.17
FY 03 EQUIP						5.000	0.360	5 000	0.000													5	0.36
FY 04 EQUIP FY 05 EQUIP								5.000	0.090	0.000	0.000											5 6	0.09 0.09
FY 05 EQUIP FY 06 EQUIP										6.000	0.090	10.000	0.300									10	0.09
FY 07 EQUIP												10.000	0.300	2.000	0.105							2	0.30
FY 08 EQUIP														2.000	0.100	10.000	0.254					10	0.11
FY 09 EQUIP																10.000	0.204	10.000	0.380			10	0.38
FY TC EQUIP																		10.000	0.000			0	0.00
TOTAL INSTALLATION COST				7.000	0.170	5.000	0.360	5.000	0.090	6.000	0.090	10.000	0.300	2.000	0.105	10.000	0.254	10.000	0.380	0.00	0.00	55	1.75
TOTAL PROCUREMENT COST				7.000	0.652	5.000	0.857	5.000	0.769		0.440	10.000	1.260	2.000	0.445	10.000	1.166	10.000	1.380	0.00	0.00	55	6.97
METHOD OF IMPLEMENTATION:							ADMINIS	TRATIVE L	.EADTIMI	E:	2 months	3		PRODUC	CTION LE	ADTIME:	10 months						
CONTRACT DATES:		1	FY2002:		Various			FY 2003:		Various			FY2004:		Various		FY2005:		Various				
DELIVERY DATES:		1	FY2002:		Various			FY 2003:		Various			FY2004:		Various		FY2005:		Various				
				FY04					FY 05					FY 06						FY 07			
INSTALLATION SCHEDULE:	PY	1	2	3	4	_	1	2	3	4	_	1	2	3	4	_		1	2	3	4		
INPUT	12				5					6					10						2		
OUTPUT	12				5					6					10						2		
30.1.0.					· ·					ŭ											-		
			FY	08				FY	09														
INSTALLATION SCHEDULE:	_	11	2	3	4	=	1	2	3	4	=		TC			TOTAL							
INPUT					10					10						55							
OUTPUT					10					10						55							
					10					10						55							

FY 04

FY 05

FY06

FY07

FY08

FY09

TC

Notes/Comments

Quantity reflects various field changes

February 2004

Total

Notes/Comments

MODIFICATION TITLE: ARCI Ship Electronics

COST CODE:

VG010

MODELS OF SYSTEMS AFFECTED:

SURTASS T-AGOS Ships

DESCRIPTION/JUSTIFICATION: ARCI Ship Electronics provides upgraded ship processing and display suite consisting of SMP technology server configuration to accommodate improved and expanded twinline data from SURTASS Ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

<u>Prior Yrs</u> <u>FY 03</u> <u>FY 04</u> <u>FY 05</u> <u>FY 06</u> <u>FY 07</u> <u>FY 08</u> <u>FY 09</u> <u>TC</u>	<u>Total</u>
	\$ Qty \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 5.000 3.340 0.000 0.000 0.000 0.000
Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware Installation of Hardware FY 02 EQUIP FY 03 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 5.000 0.420 0.000 0.000 5.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
	0.000 0.000 .000 5.000 0.420
	000 5.000 3.760
METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 1 month PRODUCTION LEADTIME: 10 Months #1; 10.5 Months #2; 1	1 Months #3, #4 & #5
CONTRACT DATES: FY2002: FY2003: FY2004: FY2005:	
DELIVERY DATES: FY2002: FY2003: FY2004: FY2005:	
FY04         FY 05         FY 06         FY 07           INSTALLATION SCHEDULE:         PY         1         2         3         4         1         2	4
INPUT 5	
OUTPUT 5	
FY 08 FY 09 TC TOTAL  INSTALLATION SCHEDULE: 1 2 3 4 1 2 3 4 5	
INPUT	
OUTPUT 5	

February 2004

Notes/Comments

MODIFICATION TITLE: ARCI Shore Electronics

COST CODE:

VG010

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

ARCI Shore Electronics provides SURTASS Signal Processing and Display Suites at two Naval Oceanographic Processing Facilities (NOPF).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

N/A

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)				Dei	· Vro	F\/	02		. 04	EV	0.5		<b>/</b> 06		′0 <del>.</del> 7		<b>/</b> 00		<b>/</b> 00	-	_	Τ.	tal
	I	Qty	\$	Prior Qtv	<u>Yrs</u> \$	FY Qty	<u>03</u> \$	Qty	<u>/ 04</u> \$	FY Qty	<u>05</u> \$	L Qty	<u>/06</u> \$	l Qtv	<u>′07</u> \$	Qty	<u>Y08</u> \$	Qty	<u>/09</u> \$	Qty	<u>C</u> S	Qty	s I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP			v	0.000	0.000	2.000	1.594 0.156 0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 1.594 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000
FY TC EQUIP																						0.000	0.000
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST				0.000	0.000	2.000	0.156 1.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.156 1.750
METHOD OF IMPLEMENTATION:	Į.	<u> </u>		0.000	0.000	2.000			LEADTIN		0.000	1 month		PRODUC				9 months		0.000	0.000	2.000	1.700
CONTRACT DATES:				FY2002:					FY2003:	Dec. 02			FY2004:				FY2005:						
DELIVERY DATES:				FY2002:					FY2003:	Aug. 03			FY2004:				FY2005:						
				FY04					<u>FY 05</u>	-				FY 06						<u>FY 07</u>			
INSTALLATION SCHEDULE:	PY	1	2	3	4	-	1	2	3	4	-	1	2	3	4			1	2	3	4	-	
INPUT	2																						
OUTPUT	1	1																					
INSTALLATION SCHEDULE: INPUT OUTPUT		1	<u>FY</u> 2	<u>′ 08</u> 3	4		1	<u>F\</u> 2	<u>/ 09</u> 3	4	-		TC	-		TOTAL 2 2							

#### CLASSIFICATION

BUDGET ITEM JUSTIFICATION								DATE	Februa	ry 2004
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELI		IIDMENIT				P-1 ITEM NON	MENCLATURE t Centers (#224	6)	SUBHEAD 52WH	
OF, N - BAZ COMMUNICATIONS & LEI	LOTRONIC LQ				Tactical Suppoi	Centers (#224	) 	32 VVI I		
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL	
QUANTITY										
COST (in millions)	\$5.1	\$9.4	\$5.1	\$5.3	\$5.3	\$5.4	\$5.5	Continuing	Continuing	

Narrative Description /Justification: The Tactical Support Center (TSC) program provides evolutionary systems and ancillary equipment upgrades to support the Maritime Sector Commanders (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (i.e. EO, IR, ISAR, etc.) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, and special operations.

The Tactical Support Center (TSC) program includes fixed site TSCs and Mobile Operations Control Centers (MOCCs). TSC's provide C4l capability, air-ground, satellite and point-to-point communications systems; sensor analysis capabilities; avionics and weapons system interfaces and facilities equipment. MOCC is a scalable and mobile version of the TSC for contingency operations and for support of operations from airfields that do not have a TSC.

WH046. Analysis Interface Equipment. This cost code contains TSC sensor analysis capabilities, avionics and weapons system interfaces, computer upgrades and associated software for interfacing analysis and processing equipment to the supported weapons systems (aircraft).

WH050. Facilities Equipment. This Cost Code contains the Facilities Equipment necessary to power and support the processing equipment and interfaces.

This Budget Request Procures: 1. TSC Upgrade Equipment; 2. Facilities Equipment; and 3. Installation of Equipment.

INSTALLATION DATA: 14 TSC systems at 12 operational sites (located at Keflavik, Iceland; Brunswick, ME; Jacksonville, FL; Sigonella, Italy; Kaneohe Bay, HI; Whidbey Island, WA; Kadena, Japan; Misawa, Japan; North Island, CA; Diego Garcia, Indian Ocean; Roosevelt Roads, Puerto Rico, and Masirah, Oman); 1 training site at Fleet Combat Training Center (FCTC) Dam Neck, VA and 1 lab site at SSC CHARLESTON DET Patuxent River, MD. 9 MOCCs at 8 operational sites (Homeported at Brunswick, ME; Jacksonville, FL; Sigonella, Italy; 2 at Barbers Point/Kaneohe Bay, HI; Misawa, Japan; Whidbey Island, WA; Willow Grove, PA; and Point Mugu, CA.) and 1 MOCC C2 Engineering Development, Software Support Facility (SSC CHARLESTON). 1 Maritime Patrol and Reconnaissance (MPR) Operations Center in Bahrain.

TSC Roosevelt Roads was decommissioned the end of FY03. It is being replaced by a mobile MOCC capability that will be staged from TSC Jacksonville to handle continued support in the SOUTHCOM AOR.

MOCC Souda Bay, Greece was stood up for permanent operations in FY03 to support Mideast AOR.

FY04 includes Congressional Add of \$3M for P-3C AIP TCDL Upgrade Program.

#### DATE February 2004 **COST ANALYSIS** APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE **SUBHEAD** OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT 52WH Tactical Support Centers (#2246) PY FY 2004 FY 2005 FY 2003 TOTAL COST UNIT **TOTAL** UNIT TOTAL UNIT TOTAL ID CODE COST COST COST COST CODE **ELEMENT OF COST** QTY COST QTY COST QTY COST ANALYSIS INTERFACE EQUIP\* 8,712 4,626 WH046 Α 4,310 FACILITIES EQUIP WH050 Α WH776 NON-FMP INSTALLATION 750 710 474 Α \*FY04 includes Congressional Add of \$3M for P-3C AIP TCDL Upgrade Program **TOTAL CONTROL** 9,422 5,060 5,100

**DD FORM 2446, JUN 86** 

P-1 Shopping List No. 41-2 of 4

Exhibit P-5, Budget Item Justification Unclassified

<sup>\*</sup> Mobile Operations Control Centers (MOCCs) systems are procured under a "turn-key" structure and therefore Installation funds are not shown separately.

UNCLASSIFIED February 2004

MODIFICATION TITLE: TACTICAL SUPPORT CENTERS (TSC) SUBHEAD/COST CODE: 52WH/WH046

COST CODE MODELS OF SYSTEMS AFFECTED:

WH046 N/A

This cost code contains fixed-site TSC sensor analysis capabilities, avionics and weapons system interfaces, computer upgrade DESCRIPTION/JUSTIFICATION:

and associated software for interfacing analysis and processing equipment to the supported weapons systems (aircraft

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

#### FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																							
	ĺ	PY O:			02		03		04	FY		FY		FY 07	•	FY 08		FY.		<u>I</u>			otal 2
RDT&E PROCUREMENT: Kit Quantity Installation Kits		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment		VAR	50.76	VAR	3.72	VAR	4.31	VAR	8.71	VAR	4.63	VAR	4.61	VAR	4.43	VAR	4.56	VAR	4.56	CONT	CONT	CONT	CONT
Support Equipment Other Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP		181 181	16.66 16.66	13	1.76	10	0.75	7	0.71	6	0.47	8	0.70	3	0.88	6	0.87	7	0.98	CONT	CONT	241 181	23.79 16.66
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP				13	1.76	10	0.75	7	0.71	6	0.47	8	0.70	3	0.88							13 10 7 6 8 3	1.76 0.75 0.71 0.47 0.70 0.88
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST			16.66		1.76		0.75		0.71		0.47		0.70	3	0.88	6	0.87	7	0.98	CONT CONT	CONT	6 7 0	0.88 0.87 0.98 0.00 23.79
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	-		67.43		5.48		5.06		9.42		5.10		5.31		5.31		5.43		5.54	CONT	CONT		90.29
METHOD OF IMPLEMENTATION:	L		07.43		3.40		ADMINIS	TDATI\/F		IE.	VAR	l .		PRODUC	CTION LEA	DTIME:	3.43	VAR	5.54	CONT	CONT		90.29
WETTOD OF IMPLEMENTATION.							ADMINIO	IIVAIIVL	LLADIIIV	IL.	VAIN			FRODUC	JIION LLA	ADTINL.		VAIN					
CONTRACT DATES:					FY 2003:		VAR			FY 2004:		VAR			FY 2005:		VAR						
DELIVERY DATES:					FY 2003:		VAR			FY 2004:		VAR			FY 2005:		VAR						
						FY	03				FY	04				FY	05				FY	06	
INSTALLATION SCHEDULE:	PY				1	2	3	4	-	1	2	3	4		1	2	3	4		1	2	3	4
INPUT	194				2	1	3	4		1	2	2	2		2	2	2			2	3	3	
OUTPUT	194				2	1	3	4		1	2	2	2			2	2	2			2	3	3
						FY	07				FY	<u>′ 08</u>				FY	09						
INSTALLATION SCHEDULE:					1	2	3	4	-	1	2	3	4		1	2	3	4		TC		<u>TOTAL</u>	
INPUT					1	1	1			2	2	2			2	2	3			CONT		241	
OUTPUT						1	1	1			2	2	2			2	2	3		CONT		241	

#### Notes/Comments

<sup>\*</sup> P-3A quantities are "Shore Sites installed". Additionally, the Installation quantities only represent TSC units

<sup>\*</sup> Install costs vary across fiscal years due to different equipment mix and locations.

UNCLASSIFIED February 2004

MODIFICATION TITLE: TACTICAL SUPPORT CENTERS (TSC) SUBHEAD/COST CODE: 52WH/WH050

COST CODE

MODELS OF SYSTEMS AFFECTED: N/A

DESCRIPTION/JUSTIFICATION: This Cost Code contains the Facilities Equipment necessary to power and support the processing equipment and interfaces.

FY 07

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FY 04 FY 05 Otv Otv Otv Qty Qty Qtv Qty Otv RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring VAR VAR 0.00 0.00 0.00 0.00 CONT CONT VAR Equipment 6.41 0.41 0 0 0.00 0 0 0 0.00 0 0 0.00 Equipment Nonrecurring Engineering Change Orders Training Equipment Support Equipment Other Interm Contractor Support Installation of Hardware\* 20 1.97 2 0.02 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 CONT CONT 22 PRIOR YR EQUIP 1.97 20 20 FY 01 EQUIP 0.01 1 FY 02 EQUIP 0.01 FY 03 EQUIP 0 FY 04 EQUIP 0 FY 05 EQUIP 0 FY 06 EQUIP 0 FY 07 EQUIP 0 FY 08 EQUIP 0 FY 09 EQUIP 0 FY TC EQUIP 0 TOTAL INSTALLATION COST 1.97 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 CONT CONT TOTAL PROCUREMENT COST 8.38 0.00 0.00 0.00 0.43 0.00 0.00 0.00 0.00 CONT CONT METHOD OF IMPLEMENTATION ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: VAR CONTRACT DATES: FY 2003: VAR FY 2004: VAR FY 2005: VAR DELIVERY DATES: FY 2003: VAR FY 2004: VAR FY 2005: VAR FY 03 FY 04 FY 05 FY 06 INSTALLATION SCHEDULE: PY INPUT 22

OUTPUT 22

FY 08 FY 09 INSTALLATION SCHEDULE: **TOTAL** TC INPUT CONT 22

OUTPUT CONT 22

Notes/Comments

6.82

2

1.97

0.01

0.01

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

1.99

8.81

<sup>\*</sup> P-3A quantities are "Shore Sites installed".

CLASSIFICATION: UNCLASSIFIED

			BUDGE	T ITEM	<b>JUSTIFICAT</b>	TION SHEET					DATE:	
					P-40						FEBRUA	RY 2004
APPROPRIATION/BUDGI	ET ACTIVITY				P-1 ITEM NON	MENCLATURE						
Other Procurement,	Navy											
<b>BA-2:</b> Communication	ons and Ele	ectroni	c Eq					AN/SLQ-3	2(V) / 2312			
Program Element for Code	e B Items:				Other Related	Program Elem	ents					
	FY 2002	ID									То	Total
	and Prior	Code	F`	Y 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
QUANTITY	0			0	0	0	0	0	0	0	0	0
COST (\$M)	5.7			1.8	22.3	18.7	22.0	27.9	25.2	21.4	contd	contd
Initial Spares (\$M)												

#### PROGRAM OVERVIEW:

#### PROGRAM DESCRIPTION/JUSTIFICATION:

The AN/SLQ-32(V) provides a family of modular shipborne electronic warfare equipment which is installed in most combatants, CV/CVN, amphibious ships and auxiliaries in the surface Navy. The system, which consists of five configurations, performs the mission of early detection, analyses, threat warning, and protection from anti-ship missiles.

The Shipboard EW Improvement Program (SEWIP) will develop a modern, highly capable family of EW systems by block upgrade of the current AN/SLQ-32 system that are robust in detecting and countering today's and future threats and will extend the service of the AN/SLQ-32(V) systems presently installed on approximately 159 U.S. Navy ships.

FY 02 and prior: Procurement and installation of Field Change Kits for the Fleet Modernization Program (FMP).

TC055: Funding in FY03 - FY09 is for procurement of Engineering Change Proposals (ECPs)/Field Change Kits to ensure future tactical suitability and viability of the AN/SLQ-32(V) and to address obsolescence and diminishing material source issues. Field Change Kits consist of: Digital Radio Frequency Memory Units (DRFMU), Deceptive Electronic Countermeasures/Decoy Integrations (DDI), Video Blanking, CFR Blanking, Sidekicks, Cartridge Tape Transport (CTT) replacement, Electromagnetic Interference (EMI) Fixes, AFT Facing Launchers, High Voltage Distribution Unit (HVDU) replacements, and (V)5 Pump & Motor ECP.

Funding in FY04 - FY09 for procurement of Small Ship Electronic Surveillance Systems (SSESM). These are required to provide Specific Emitter Identification (SEI) capability to various ships/ship classes.

FY08 - FY09 for procurements of High Gain High Sensitivity (HGHS) capability to improve situational awareness and threat warning.

Funding in FY04 - FY09 for procurement of Improved Control and Display (ICAD) consoles for the AN/SLQ-32(V). ICAD replaces the current Display Control Console (DCC) with a UYQ-70 console. ICAD is a low-risk improvement that provides the EW operator with the tools necessary to improve tactical performance, situational awareness and battle readiness. FY 04 includes Congressional Plus-up for development of IETMs for ICAD.

Funding in FY04-FY09 for procurement of Electronic Surveillance Enhancement (ESE) kits for the AN/SLQ-32(V). ESE replaces the Digital Processing Unit and Digital Tracking Unit with a modern computer structure. This enhanced functionality increases Anti-Ship Missile Defense (ASMD) capabilities by increasing the probability of correct identification of threats.

TC5IN: Shipboard installation of ECP/Field Changes (including ESE), SSESM, and ICAD. TC6IN: Installation of ECP/Field Changes (including ESE), SSESM, and ICAD at shore sites.

DD Form 2454, JUN 86 P-1 SHOPPING LIST PAGE NO. CLASSIFICATION:

1

## CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM P-		NALYSIS			Weapon Sys	tem							DATE:	ARY 2004
Other Pro	PRIATION/BUDGET ACTIVITY ocurement, Navy					ID Code		MENCLATURE	SUBHEAD						
BA-2: C	communications and Electronic Eq		I				N/SLQ-32	2(V) / 2312					SUBH	EAD: A2T	
			TOTAL COS	T IN THOUSA	NDS OF DOL	LARS									
COST CODE	ELEMENT OF COST	ID Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	FY 2003 Unit Cost	Total Cost	Quantity	FY 2004 Unit Cost	Total Cost	Quantity	FY 2005 Unit Cost	Total Cost
	SPONSOR N76		Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Offic Cost	Total Cost	Quantity	Onit Cost	Total Cost	Quantity	Offic Cost	Total Cost
TC055	Equipment ECP/FIELD CHANGE KITS	Α							833			4,091			3,765
TC055	Small Ship ESM systems (SSESM) Production Support SSESM	В								13	325	4,225 330	10	325	3,250 287
TC055	SEI/High Gain High Sensitivity (HGHS)	В													
TC055	ICAD Production Support ICAD Logistics Support ICAD	В								10	260	2,600 386 2,967	14	260	3,640 419
TC055	ESE Production Support ESE	В								20	202	4,040 341	20	202	4,040 287
TC5IN	FMP INSTALLATIONS								949			3,178			2,952
TC6IN	NON-FMP INSTALLATIONS								0			104			88
		<u> </u>							1,782	43		22,262	44		18,728
DD FORM	I 2446, JUN 86					P-1 SHOPF	ING LIST	PAGE NO.	<u> </u>		<u> </u>	CLASSIFICATION	DN:	<u> </u>	

B. APPROPRIAT	, NAVY				C. P-1 ITEI AN/SLQ-32(V)	 M NOMENCLATURE / 2312	Ē		SUBHEAD A2	TC
BA-2: Communicatio  Cost Element/  FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
FISCAL YEAR 04	13	325	NRL	11/03	FFP	ITT Industries	1/2004	6/04	YES	
CAD	10	260	NAVSEA	N/A	FFP	LM -Eagan	7/04	2/05	YES	
ESE	20	202	NSWC Crane	4/02	FFP	Northrop Grumman	6/04	9/04	YES	
FISCAL YEAR 05 SSESM	10	325	NAVSEA	TBD	FFP	GD AIS	12/04	5/05	YES	
CAD	14	260	NAVSEA	N/A	FFP	LM -Eagan	12/04	10/05	YES	
ESE	20	202	NSWC Crane	4/02	FFP	Northrop Grumman	1/05	4/05	YES	

P-1 SHOPPING LIST PAGE NO. CLASSIFICATION: DD Form 2446-1, JUL 87

CLASSIFICATION: UNCLASSIFIED **FEBRUARY 2004** 

РЗА		INDIVI	DUAL	MODIFI	CATIO	ON																
MODELS OF SYSTEM AFFECTED:	AN/SLQ	-32(V)	_		TYPI	E MODII	FICAT	ION:	ECPs	/SARs					MOD	IFICATION	N TITL	.E:	Various			
DESCRIPTION/JUSTIFICATION:																						
Funding is for Surface Electronic Warfare In	nproveme	ents to Al	N/SLC	0-32(V) .	Proc	urement	and i	nstallatio	n of im	proveme	nts is i	necessary	/ to er	nsure futur	e mis	sion tactica	al suita	ability and	viability fo	or SLQ-32(V	).	
DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT FY 200		TONES	<b>S</b> :	BLO	CK 1A:E	SE(D	T/OA:2Q	FY04)	ICAD (D	T/OA:	1Q-3QFY	04,OT	T:1QFY05)	•							
	and Pric	<u>or</u>	OTV	\$		<u>2003</u>	E <u>Y</u> QTY	<u>Y 2004</u>	<u>F)</u> QTY	<u>/ 2005</u> \$	<u>F`</u> QTY	<u>/ 2006</u> \$		Y 2007 \$		<u>Y 2008</u> \$		Y 2009 \$	QTY	<u>TC</u> \$	QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)	QIT	\$	QTY	<b></b>	QTY	, p	QIT	<u> </u>	QIT	Ψ	QIT	Þ	QTY	<b></b>	QTY	Þ	QTY	<u></u>	QIT	<u></u>	QIT	<u> </u>
RDT&E	0	182.0	0		0	36.5	0	43.6	0	25.8	0	14.5	0	10.5	0	19.4	0	19.1		Cont.		351.4
PROCUREMENT																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT - SSESM							13	4.2	10	3.3	14	4.6	18	5.9	15	4.9	1	0.3			71	23.1
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGES		1.0				0.8		4.1		3.8		2.9		3.6		3.7		5.2				24.0
UNIT COST DATA FOR EQUIPMENT																						0.0
TRAINING EQUIPMENT																						0.0
SUPPORT EQUIPMENT																						0.0
OTHER - ICAD							10	2.6	14	3.6	17	4.4	15	3.9	12	3.1	8	2.3		Cont	76	20.0
OTHER - ESE							20	4.0	20	4.0	27	5.5	44	8.9	38	7.7				Cont	149	30.1
OTHER - SEI/HGHS															1	1.3	8	10.3		Cont	9	11.6
LOGISTICS SUPPORT								3.0														3.0
PRODUCTION ENGINEERING								1.1		1.0		1.1		1.0		1.1		8.0				6.0
INTERIM CONTRACTOR SUPPORT																						
PROCUREMENT COST		1.0	0	0.0	0	0.8	43	19.0	44	15.7	58	18.4	77	23.2	66	21.7	17	18.9		0.0	305	117.8
INSTALL COST (Includes FMP & Non-FM	 P)	4.7		0.0		0.9		3.3		3.0	0	3.6		4.7	0	3.5		2.4				26.2
TOTAL PROGRAM		5.8		0.0		1.8		22.3		18.7		22.0		27.9		25.2		21.4				144.0
				-				P-1 SHO	OPPIN	G LIST			PAGE	E NO.					CLASSI	FICATION:	-	

CLASSIFICATION: UNCLASSIFIED **FEBRUARY 2004** INDIVIDUAL MODIFICATION (Continued) P3A (Continued) MODELS OF SYSTEMS AFFECTED: AN/SLQ-32A(V)2, A(V)3 MODIFICATION TITLE: Small Ship Electronic Surveillance Systems (SSESM) INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: SHIPALT/AIT ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 4 Months FY 2002: FY 2004: FY 2005: CONTRACT DATES: Jan-04 Dec-04 FY 2003: DELIVERY DATE: FY 2002: FY 2004: Jun-04 FY 2005: May-05 (\$ in Millions) FY 2001 and Prior FY 2004 FY 2005 Cost: FY 2002 FY 2003 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Qty \$ \$ \$ \$ Qty \$ Qty Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty \$ PRIOR YEARS FY 2001 AND PRIOR 0.00 FY 2002 EQUIPMENT 0.00 FY 2003 EQUIPMENT 0.00 FY 2004 EQUIPMENT 0.71 13 0.71 0.29 0.29 FY 2005 EQUIPMENT 10 FY 2006 EQUIPMENT 0.43 14 0.43 FY 2007 EQUIPMENT 18 0.85 18 0.85 FY 2008 EQUIPMENT 15 0.85 15 0.85 FY 2009 EQUIPMENT 0.79 0.79 TO COMPLETE \*\* Cont 3.92 INSTALLATION SCHEDULE: SHIP AVAILABILITIES FY2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TOTAL 3 AND PRIOR 3 3 3 3 3 2 3 6 5 5 5 IN 6 7 6 4 5 6 6 5 1 71 OUT 5 6 6 5 5 71 6 7 6 4 4 5 6

CLASSIFICATION: UNCLASSIFIED

FEBRUARY 2004

#### CLASSIFICATION: UNCLASSIFIED

P3A (Continued)						INDIV	IDUAL	MODIFICA	ATION (	Continued)												
MODELS OF SYSTEMS AFFE	CTED	: AN/S	SLQ-	32A(V)1,A	\(V)2				MODIF	ICATION TIT	LE:		Impr	oved Control a	and Dis	play (ICAD)						
INSTALLATION INFORMATIO METHOD OF IMPLEMENTATI ADMINISTRATIVE LEADTIME	ON:	SHIF 3		/AIT Months			<u> </u>	DDC	DUCTIO	ON LEADTIM	E.		7 Mo	untho								
CONTRACT DATES: DELIVERY DATE:	FY	2002: 2002:	-	IVIOITIIIS		_		EV 2002:		ON ELAD IIIV			2004: 2004:	July 200 Februar		- -		7 2005: 7 2005:		cember 2004 cober 2005		
											(\$ in Mi											
Cost:		2001 and Prior	F	Y 2002		Y 2003		Y 2004		Y 2005		/ 2006	_	FY 2007		Y 2008		FY 2009		Complete		otal
PRIOR YEARS	Qty	\$		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
FY 2001 AND PRIOR																					0	0.00
FY 2002 EQUIPMENT																					0	0.00
FY 2003 EQUIPMENT																					0	0.00
FY 2004 EQUIPMENT									9	1.33											9	1.33
FY 2005 EQUIPMENT											13	1.9	1								13	1.90
FY 2006 EQUIPMENT													15	2.16							15	2.16
FY 2007 EQUIPMENT															9	1.29					9	1.29
FY 2008 EQUIPMENT																	7	1.02			7	1.02
FY 2009 EQUIPMENT																			7	1.82	7	1.82
TO COMPLETE **																				Cont	60	9.52
INSTALLATION SCHEDULE	Ξ.	NOTE: QUA			FER FF	ROM P-5 BI	ECAUS	E OF INS	TALLAT	ONS AT SH	ORE SIT	ES (17).										
FY2002	:	FY 2003			FY 2			FY 2005			2006			2007		FY 2008		FY 20		тс	TOTAL	-
IN AND PRIO	R 1	2 3	-	4 1	2	3 4		2 3 4	4	7 6	3	4 1 8	7	3 4	5	<u>2</u> <u>3</u>	4	4 3	3	7	60	
OUT								5	4	4	5	4 4	4	4 3	3	2 2	2	2 2	2	1 7	60	
								P-1	SHOPPI	NG LIST	42	PAGE		6						CLA	SSIFICA <sup>-</sup>	FION: UNCLASSIF

CLASSIFICATION: UNCLASSIFIED		FEBRUARY 2004
P3A (Continued)	INDIVIDUAL MODIFICATION (Continued)	

					INDIVI	DUAL	WODIFICA	IIION (I	Continue	a)											
MODELS OF SYSTEMS AFFEC	CTED:	AN/S	LQ-32A(V)2,	A(V)3				MODIF	FICATION	TITLE:		High	Gain High Se	ensitivity							
NSTALLATION INFORMATION METHOD OF IMPLEMENTATION METHOD OF IMPLEMENTATION METHOD OF IMPLEMENTATION METHOD OF INFORMATION MELIVERY DATE:	ON: FY 2	SHIP 3 Mo 2002: 2002:	ALT/AIT nths				PRO FY 2003: FY 2003:		ON LEAD		FY:	TBD 2004: 2004:					2005: 2005:				
Cost:	Try 20	001 and Prior	FY 2002	1 .	FY 2003		Y 2004		Y 2005	(\$ in M	illions) ′ 2006	1	FY 2007	T =	Y 2008	1 -	FY 2009	Т т.	Complete	Т т	otal
	Qty	\$	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	Complete \$	Qty	\$
PRIOR YEARS																					
FY 2001 AND PRIOR																				0	0.00
FY 2002 EQUIPMENT																				0	0.00
FY 2003 EQUIPMENT																				0	0.00
FY 2004 EQUIPMENT																				0	0.00
FY 2005 EQUIPMENT																					0.00
																				0	
FY 2006 EQUIPMENT	-															-				0	0.00
FY 2007 EQUIPMENT																				0	0.00
FY 2008 EQUIPMENT														1	0.05					1	0.05
FY 2009 EQUIPMENT																8	0.36			8	0.36
TO COMPLETE **																			Cont	9	0.41
		NOTE: FY04		ANTITIE	ES DIFFER	FROM	P-5 BECA	USE OF	INSTALL	ATIONS	AT SHORE	SITES	(2).								
INSTALLATION SCHEDULE		SHIP AVAIL	ABILITIES																		
FY2002 AND PRIOF		<u>FY 2003</u> 2 3	4 1	<u>FY 2</u> 2	<u>1004</u> 3 4		FY 2005 2 3	4		<u>Y 2006</u> 3	4 1	<u>FY 2</u> 2	2 <u>007</u> 3 4	1	FY 2008 2 3	4	<u>FY 2</u> 1 <u>2</u>		TC 4	TOTAL	
	ΗĖ							Ť	<u> </u>		一			Ė	1	1	<u> </u>	4	4	9	
IN								1	1		11			1			l		1 1 1 1		1

Exhibit P-40, Budget 1	Item Just	ification					Date								
, 6							February 200	)4							
Appropriation (Treasu	ry) Code	CC/BA/BSA	A/Item Contr	ol Number			P-1 Line Iten	n Nomenclati	ıre						
Other Procurement, N	avy/2/23	4000/234006	I				Information	Warfare Sy	stems						
Program Element for O	Code B It	tems:			Other F	Related Prog	ram Elements								
	ID Code	Prior Years	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total			
Proc Qty	Code		F 1 2002	F 1 2003	F 1 2004	F 1 2003	F 1 2000	F 1 2007	F1 2008	F 1 2009	Complete	Total			
Gross Cost	A	24.723	2.718	4.787	3.909	3.784	3.651	3.759	3.835	3.922	Cont.	Cont.			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (=P-1)															
Initial Spares	A	.975	.150	.250	.250	.250	.250	.250	.250	.250	Cont.	Cont.			
Total Proc Cost	A	25.698	2.868	5.037	4.159	4.034	3.901	4.001	4.085	4.172	Cont.	Cont.			
Flyaway U/C															
Wpn Sys Proc U/C															
D '.'															

### Description:

The Naval Information Warfare Activity (NIWA) serves as the Program Manager for the Offensive Information Warfare (IW) program. As such, NIWA is tasked as the Navy's principal technical agent to research, assess, develop, and prototype IW capabilities. The key focus is to provide tactical commanders with both an IW Mission Planning, Analysis and Command and Control Targeting System (IMPACTS) tool and state-of-the-art Electronic Attack (EA) hardware and software.

P-1 Shopping List - Item No 43

Exhibit P-40, Budget Item Justification

Exhibit P-40a, Budget	Item Jus	tification fo	or Aggregated Items			Date February 2004
Appropriation/Budget A	Activity	OPN/2/23	4000/234006			Information Warfare Systems
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005	Total
Production Support	Α	11.450	0.000	0.000	0.000	11.450
IW/CW Equipment	Α	0.900	0.000	0.000	0.000	0.900
EA Equipment	Α	7.080	1.488	2.284	2.459	Cont.
EA Equipment Spares	Α	0.975	0.000	0.000	0.000	.975
EA Installation	Α	0.300	0.000	0.250	0.000	0.550
Perception Mngmnt	Α	2.406	0.000	0.000	0.000	2.861
IMPACTS Support	Α	0.725	0.600	0.875	0.775	Cont.
SSA Support	A	0.100	0.200	0.250	0.250	Cont.
Fleet HPC HW	Α	0.400	0.300	0.300	0.300	Cont.
Contractor HW	A	0.780	0.318	0.200	0.250	Cont.
IW Misc.	A	0.582	0.000	0.000	0.000	0.582
						Cont.
Computer Network Defense (CND)	A	0.000	2.131	0.000	0.000	2.131
						Cont.
						Cont.
						Cont.
						Cont.
Total Quantity		Var	Var	Var	Var	Cont.
Total Cost	Α	25.698	5.037	4.159	4.034	Cont.

P-1 Shopping List - Item No 43

Exhibit P-40a, Budget Item Justification for Aggregated Items

Exhibit P-18 Initial and Replenishment Spare and Repair Parts J  Appropriation (Treasury) OPN/2/234000/234006  Prior  Prior  EVACOUS E		oair Parts Just	ification		Date: Febru	ary 2004					
Appropriation (Treasury)	OPN/2/23400	00/234006				Information	n Warfare Sy	stems			
	Prior										
End Item P-1 Line Item	Years	FY 2002	FY 2003	FY 2004	FY 2005						Total
INITIAL											
Information Warfare	.975	.150	.250	.250	.250						Cont.
Spares											
TOTAL INITIAL	.975	.150	.250	.250	.250						Cont.
REPLENISHMENT											
N/A											
TOTAL											
REPLENISHMENT											
Remarks:		I	l	I	1	- I	1	I	1	-1	1
Funded Initial Spares											

Funded Initial Spares

P-1 Shopping List Item No 43

Exhibit P-18, Initial and Replenishment Spares and Repair Parts Justification

#### CLASSIFICATION

	BUDGET ITEM JU	USTIFICATION S	HEET					DATE:	February 2004
APPROPRIATION/BU OP,N - BA2 COMMUNI	DGET ACTIVITY CATIONS & ELECTRONI	C EQUIPMENT			P-1 ITEM NOMENCLA SHIPBOARD IW EXPLO			SUBHEAD 521U	
			FY 2003	FY 2004	FY 2005	FY 2006	FY2007	FY 2008	FY 2009
QUANTITY									
COST (in millions)			82.1	122.2	69.2	35.9	112.9	78.1	79.7

#### PROGRAM COVERAGE:

#### JUSTIFICATION OF BUDGET REQUIREMENTS:

- (U) This line procures the following:
- (U) A Cooperative Outboard Logistics Update (COBLU) joint cooperative program between the United States and the United Kingdom (U.K.) was established 1 July 1994 with a Memorandum of Understanding (MOU) being signed by both governments. The COBLU program provides upgrades to the existing OUTBOARD System (AN/SSQ-108) to provide Comprehensive Surface Tactical (CESM) capability to the 21st century. The program will make maximum use of already developed military and commercial signal exploitation equipment. The systems architecture will require minimal effort to implement future technologies necessary to handle the evolving threat. Program is being executed in two phases; Phase 0 is an interim update that focuses on transitioning Human Computer Interface (HCI) to a Joint Maritime Command Information System (JMCIS) environment and integrating with Direction Finding Engineering Change Proposal (DFECP). Phase 1 focuses on a total update of front-end sensors.
- (U) The Ships Signal Exploitation Equipment (SSEE) Phase 2 program is an evolutionary acquisition, commercial off-the-shelf/non-developmental item (COTS/NDI) program designed as the building block to improve the tactical cryptologic and Information Warfare (C2W/IW) exploitation capability across Navy surface combatant platforms. SSEE provides the afloat cryptologist with threat identification and analysis of Communications Intelligence (COMINT) as well as queuing of radio direction finding assets. Equipment Includes Receivers, RF Management Systems, Recorders, Audio Distribution Systems, Computers, Antennas and Ancillary Hardware. The system is upgraded incrementally, as improvements are developed. Currently, Increment I is in production and fielding. SSEE PHASE 2 Increment D: Procures equipment that digitizes the Receivers and RF Management systems, adds signal analysis/processing capability and provides an open architecture that accommodates additional functional capabilities. SSEE Increment E shall employ the Maritime Cryptologic Strategy for the 21st century (MCS-21) concept of a single core architecture that is easily modernized and scaled in capability. The system design permits the rapid insertion of new and emerging P3I to address the evolving threat. The system will utilize generic processor technology to counteract obsolescence issues with Digital Signal Processing (DSP) technologies and provide software receivers for ease of modification to deal with known and projected exotic threat signals of interest. Automated signal acquisition and integrated Radio Direction Finding (RDF) will be incorporated into the Increment E system.
- (U) The Transportable Radio Direction Finding (T-RDF) and associated deck and/or mast antenna is a complete communication band shipboard Direction Finding system for bearing computation for surface combatants and is designed to operate in the harsh shipboard environment.

#### CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET		DATE:	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	SHIPBOARD IW EXPLOIT SYSTEMS 2360	521U	

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: (continued)

- (U) ECP/Obsolecence integration procures COTS/NDI equipment to replace obsolete and unsupportable equipment for the SSEE, COBLU, BGPHES-ST and COMBAT DF/ADAS, CDL-N programs. These changes allow for a common logistic support baseline for these programs and provides the hardware to support the DII COE/GCCS-M software upgrades.
- (U) Battle Group Passive Horizon Extension System (BGPHES) provides the ability for cryptologic operators to monitor, record and analyze selected signals of interest. BGPHES is a fully digital, open architecture SCI system which is built upon the USN GCCS-M and USAF Deployable Ground Intercept Facility (DGIF) baselines. The surface terminal consists of two basic subsystems: Local Monitoring Systems (LMS) and Airborne Receiving Systems (ARS). BGPHES is projected to become the Navy's Signals Intelligence (SIGINT) component of the Distributed Common Ground Station (DCGS) and must be multi-service interoperable and Joint SIGINT Avionics Family (JSAF) compliar FY01 Funding supports the procurement of BGPHES V(1) and BGPHES Airborne Test Fixture. BGPHES V(1) system design permits P3I to the local monitoring system (LMS) and the Airborne Receiver System (ARS). The BATF P3I includes changes to the hardware interfaces and upgrades the system processors.
- (U) Special Modulation Detection Assembly (SMDA). A VME compliant digitizer used by Navy Electronic Support Measures (ESM) processors to provide a digitized intermediate frequency suitable for obtaining a Specific Emitter ID (SEI) signature on certain types of radiated electronic signals. This digitized signal is then used by algorithms developed and supported by the Naval Research Lab within the host processor to provide the SEI signature to the system. The current production model SMDA consists of a two VME card set. Current processors which are compatible with the SEI SMDA are the AN/SP-160 installed in the P-3C AIP (SMDA funding executed by NAVAIR PMA 290C) and the AN/SP-110 (a subcomponent of the BLQ-10 ESM system procured by NAVSEA PMS-473). The SMDA cards supported by this line item are intended for the SP-110 and are delivered to Naval Surface Warfare Center Dahlgren, VA. for installation under the SP-110 program. Total procurement across the FYDP provides one assembly for each SP-110 processor.
- (U) The Common Data Link NAVY (CDL-N) (formerly called Common High Bandwidth Data Link-Shipboard Terminal (CHBDL-ST)). FY2000 and prior procured CHBDL-ST systems. FY2001 and FY2002 procured CDL-N systems. FY 03 FY 05 will procure CDL-N Block 1 Systems. The CDL-N system provides network interface capability, wideband encryption, and command link upgrades to the CHBDL-ST baseline system. CDL-N provides a wideband data link between Navy/Joint airborne sensor systems and the shipboard processors of national and tactical reconnaissance programs. It is designed to communicate with the BGPHES-ST and the Joint Services Imagery Processing System Navy (JSIPS-N). CDL-N benefits the fleet by providing horizon extension for line-of-sight sensor systems for use in time critical strike missions and is interoperable with the F/A-18 SHARP, TCDL Equipped P-3C and EP-3E Navy Aircraft, USAF Dual Data Link II equipped Special Aircraft, and Global Hawk HAE UAV. The NIU Kit (prevously known as DSM/ATM kits) provides a second Link Controller Rack with network interface capability, Sun workstation, wideband encryption, and command link upgrades to the CHBDL-ST baseline system. The Video Interface Group (VIG) Kit provides an additional workstation that provides streaming video display, record, and playback capability to support TCDL Equipped Navy Aircraft.
- (U) IW Training Equipment provides operator, unit or multi-unit level training on Tactical Cryptologic Systems (TCS). This training enhances initial skills, provides refresher taining and increases proficiency of the operator on the TCS through the generation and replay of operational scenarios by software simulation versus hardware stimulation. Additionally this line supports the procurement of the Cryptologic On-Line Trainer (COLT) hardware for Shipboard IW team training.
- (U) Installation Agent(s): Installations are accomplished by formal shipalt by Alteration Installation Team (AIT).

CLASSIFICATION

COST ANALYSIS DATE: February 2004 APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT SHIPBOARD IW EXPLOIT SYSTEMS 2360 521U TOTAL COST IN THOUSANDS OF DOLLARS FY2003 FY2004 FY2005 ID COST UNIT TOTAL UNIT TOTAL UNIT TOTAL CODE ELEMENT OF COST CODE QTY COST COST QTY COST COST QTY COST COST 1U004 COBLU PHASE I Α SSEE PHASE 2 INCREMENT D 1U008 Α 111009 T-RDF SYSTEMS 1U010 T-RDF ANTENNAS 213.0 1,278 302.7 2,119 317.0 Α 2 634 ECP/OBSOLESCENCE 4,924 VAR VAR VAR 1,450 1U013 Α VAR VAR 6,782 VAR 1U017 SSEE INCREMENT E VARIANT 1 6 2836.0 17,016 14 3,653 51,145 3,610.5 32,495 Α 1U019 BGPHES-ST VARIANT 1 SMDA EQUIPMENT 52.0 1U020 49 7 497 10 520 1U027 CDL - N BLOCK 1 5,785.6 34.714 3,549.0 24.843 2.900.0 8,700 1U028 CDL-N BACKFIT KITS VAR 4,105 VAR VAR 3,634 VAR Α 1U029 IW TRAINING EQUIPMENT VAR VAR 1,018 VAR VAR 5,387 VAR VAR 1,456 1U555 PRODUCTION SUPPORT 5,308 8,886 3,829 INSTALLATION 13,784 18,913 20,110 1U777 INSTALL-FMP 10 792 13 329 15,825 1U777 2,381 3,451 1,331 1U776 INSTALLATION-NON FMP 611 2.133 2,954 TOTAL 82,147 122,206 69,194 DERF FUNDING NIU KIT SYSTEMS ENGINEERING & INTEGRATION SUPPORT CDL-N INSTALLATION TOTAL

Cost Code: 1U010 Increase in UPC from FY03 to FY04. FY04 antennas will be delivered with performance enhancement.

Cost Code: 11013 Unit cost and quantity varies because the equipment being procured is COTS/NDI and supports all the programs within the Shipboard IW Exploit Budget.

Cost Code: 1U017 Increase in UPC from FY03 to FY04 is due to FY04 systems includes the antennas as part of UPC.

Cost Code: 1U027 FY00 and prior are CHBDL systems. FY01 and FY02 are CDL-N systems. FY03 - FY04 will procure CDL-N Block 1 systems. FY05 systems will begin backfitting fielded CHBDL systems. FY03 UPC reflects NRE cost associated with awarding a new contract.

Cost Code: 1U028 QTY changed to various in FY03 and name changed from NIU kits to CDL-N Backfit kits to include both Network Interface Unit (NIU) and Video Interface Group (VIG) backfit kits.

NIU Kits backfit FY02 and prior CDL-N procurements. In FY03 the VIG capability will be introduced with CDL-N procurements and will backfit fielded systems.

Cost Code: 1U029, IW Training Equipment was previously included in the 1U013, ECP/OBS cost code. Quantity varies because of different configurations of training systems

that support all of the programs within the Shipboard IW Exploit Budget.

### PROCUREMENT HISTORY AND PLANNING

DATE:

February 2004

B. API	PROPRIATION/BUDGET ACTIVITY					C. P-1 IT	EM NOMEN	CLATURE	l		SUBHEAD	
OP,N - B	A2 COMMUNICATIONS & ELECTRON	IIC EQU	JIPMENT			SHIPBOAR	D IW EXPLO	OIT SYSTEMS	2360		521U	
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
	T-RDF ANTENNAS SSEE INCREMENT E VARIANT 1	04 05 03 04 05	SWRI SA, TEXAS SWRI SA, TEXAS ARGON, VA ARGON, VA ARGON, VA	OPTION/FFP OPTION/FFP COMP/FFP OPTION/FFP OPTION/FFP	SSC/CH SSC/CH OSP OSP OSP	N/A N/A Sep-00 N/A N/A	Jan-04 Jan-05 Jan-03 Nov-03 Nov-04	Jun-04 Jun-05 Jan-04 Nov-04 Nov-05	7 2 6 14 9	302.7 317.0 2,836.0 3,653.0 3,610.5	YES YES YES YES YES	N/A N/A N/A N/A N/A
	SMDA EQUIPMENT CDL - N	04 05 03 04 05	EDO ESG, CA EDO ESG, CA CUBIC CORP CUBIC CORP CUBIC CORP	OPTION/FFP OPTION/FFP COMP/FFP OPTION/FFP OPTION/FFP	NAWC PAX NAWC PAX SPAWAR SPAWAR SPAWAR	N/A N/A Jun-02 N/A N/A	Feb-04 Dec 04 Mar-03 Jan-04 Dec-04	May-04 Mar-05 Aug-04 Aug-05 Jul-06	10 10 6 7 3	49.7 52.0 5,785.6 3,549.0 2,900.0	YES YES YES YES YES	N/A N/A N/A N/A N/A

### D. REMARKS

1U017 - Jan 03 is the LRIP award date, Nov 03 is the FRP award date.

DD FORM 2446, JUN 87

P-1 Shopping List-Item No 44 -4 of 19

UNCLASSIFIED
February 2004

MODIFICATION TITLE: COBLU-SHIP COST CODE 1U004/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The COBLU system provides comprehensive surface tactical CESM capability into the 21st century and focuses on a total update of OUTBOARD sensors

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																							
		PY .		02	FY			04	FY (		FY		FY		FY		FY 09		TC			tal	
DD#4 F	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT:																							
Kit Quantity																							
Installation Kits																							
Installation Kits Nonrecurring																							
Equipment	6	35.3	2	14.2																	8	49.5	
Equipment Nonrecurring																							
Engineering Change Orders																							
Data																							
Training Equipment		1.2		0.2		0.1		0.1														1.6	
Production Support Other (DSA)		1.2 0.4		0.2		0.1 0.4		0.1														1.6 1.2	
Interm Contractor Support		0.4		0.3		0.4		0.0														1.2	
Installation of Hardware	1	0.0	2	1.1	4	4.0	1	0.7													8	5.8	
PRIOR YR EQUIP	1	0.0	2	1.1	3	3.0	-	0.7													6	4.1	
FY 02 EQUIP					1	1.0	1	0.7													2	1.7	
FY 03 EQUIP																					0	0.0	
FY 04 EQUIP																					0	0.0	
FY 05 EQUIP																							
FY 06 EQUIP																							
FY 07 EQUIP FY 08 EQUIP																							
FY 09 EQUIP																							
FY TC EQUIP																							
TOTAL INSTALLATION COST		0.4		1.4		4.4		0.7		0.0		0.0		0.0		0.0		0.0		0.0		6.9	
TOTAL PROCUREMENT COST		36.9		15.7		4.6		0.8		0.0		0.0		0.0		0.0		0.0		0.0		58.0	
METHOD OF IMPLEMENTATION:								ADMIN	NISTRATIVE	LEADT	ME:	3 MOS			PRODUC	TION LE	EADTIME:	1	16 MOS				
CONTRACT DATES:													FY 2002:		Feb-02								
DELIVERY DATES:													FY 2002:		Jun-03								
		F	Y 03				F	Y 04				FY	05				FY 06						
INSTALLATION SCHEDULE: PY	1	2	3	4	_	1	2	3	4		1	2	3	4		1	2	3	4				
INPUT	3 1	1	2					1															
INFUI	3 1	1	2					1															
OUTPUT	3	1	1	2					1														
INSTALLATION SCHEDULE:	1	2 <u>F</u>	Y 07 3	4		1	2 <u>F</u>	Y08 3	4		1	2 <u>FY</u>	<u>709</u> 3	4							TC		TOTA
			,	-T	_	1									_					-	10	•	
INPUT																							8
OUTPUT																							8

Notes/Comments: Prior Year hardware buy includes an EDM Upgrade. FY01 Install is not priced seperately because it is a turnkey installation.

UNCLASSIFIED

MODIFICATION TITLE: COBLU-SHORE COST CODE 1U004/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The COBLU Phase provides comprehensive surface tactical CESM capability into the 21st century and focuses on a total update of OUTBOARD sensors.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	i	- <u>P</u>		<u> F Y</u>		FY 03		FY 04	<u>FY</u>		<u> FY</u>		FY 0		FY 08			09	1		10		
RDT&E PROCUREMENT: Kit Quantity		Qty	\$	Qty	\$	Qty \$	Qt	y \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders		1	6.7																		1	6.7	
Data Training Equipment Production Support * Other (DSA)																							
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP				1	0.4 0.4																1	0.4	
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP																							
FY 09 EQUIP																							
FY TC EQUIP TOTAL INSTALLATION COST	-		0.0		0.4	0.0	)	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.4	
TOTAL PROCUREMENT COST			6.7		0.4	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		7.1	
METHOD OF IMPLEMENTATION:								ADMIN	NISTRATIV	E LEADTI	ME:	3 MOS			PRODUCTIO	ON LE	ADTIMI	Ε:	16 MOS				
CONTRACT DATES:													FY 2002:		Feb-02								
DELIVERY DATES:													FY 2002:		Jun-03								
INSTALLATION SCHEDULE:	PY	1	2 <u>FY</u>	<u>Y 03</u> 3	4	1	2	<u>FY 04</u> 3	4	<u>-</u>	1	2 <u>FY</u>	<u>05</u> 3	4	. <u> </u>	1	2 <u>FY</u>	3	4				
INPUT	1																						
OUTPUT	1																						
INSTALLATION SCHEDULE:		1	2 <u>FY</u>	Y 07	4	1	2	<u>FY0</u>	<u>8</u>		1	2	FY09 3	4							TC		TOTAL
	-	1		3	4			3	4	-			3	4							IC		TOTAL
INPUT																							1

Notes/Comments:

OUTPUT

February 2004

<sup>\*</sup> Production Support shown on P3-A, COBLU SHIP

UNCLASSIFIED

MODIFICATION TITLE: T-RDF ANTENNAS-SHIP

COST CODE 1U010 / 1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) Transportable Radio Direction Finding (T-RDF) is a complete communication band shipboard T-RDF system for signal acquisition and

bearing computation for surface combatants and is designed to operate in the harsh shipboard environment.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																									
			<u> Y</u>		7 02		<u>7 03</u>		Y 04		Y 05		Y 06		Y 07	FY			7 08		Y 09	TC	2 , ,	Tot	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring		Qty	1.6	Qty 5	1.0	Qty 6	1.3	Qty 7	2.2	Qty 2	0.6	Qty	\$	Qty 3	1.0	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 38	7.6
Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support		15	0.7 0.3		0.1 0.4		0.7 0.5		0.5 0.5		0.2 0.3		0.0 0.0		0.1 0.2									29	2.3 2.1
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP		15 15	2.4 2.4	3	2.1	2 1	2.3 1.6 0.8	5 2	4.1 2.9 1.2	5	3.0	2	1.2	3	1.9									38 15 5 6 7 2 3	17.0 2.4 3.7 3.7 4.1 1.2 1.9
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			2.7 5.0		2.5		2.8 4.8		4.5 7.2 ADMIN	NISTRATI	3.2 4.1 VE LEADT	IME:	1.3 1.3 3 MOS		2.0	PRODUC	0.0 0.0 TION LE	EADTIME	0.0 0.0	5 MOS	0.0		0.0		19.1 29.0
CONTRACT DATES:									FY 2003	3:	Jan-03			FY 2004	4:	Jan-04			FY 200	5:	Jan-05				
DELIVERY DATES:									FY 2003	3:	Jun-03			FY 2004	4:	Jun-04			FY 200	5:	Jun-05				
INSTALLATION SCHEDULE:	PY	1	2 <u>I</u>	FY 03 3	4	_	1	2 <u>F</u>	<u>Y 04</u> 3	4	_	1	2 <u>F</u>	Y 05 3	4	_	1	2 FY	<u>7 06</u> 3	4					
INPUT	18			2	1		1	2	3	1			1	3	1			1	1						
OUTPUT	18			2	1		1	2	3	1			1	3	1			1	1						
INSTALLATION SCHEDULE:		1	2	<u>FY07</u> 3	4	_	1	2	<u>FY08</u> 3	4	_	1	2	<u>FY09</u> 3	4	_						TC		TOTAL	
INPUT					3																			38	
OUTPUT					3																			38	

Notes/Comments: PY reflects the procurement of individual antennas vice a suite of antennas which is reflected in the procurement quantities in FY 00-FY 05.

Each installed suite includes 1 mast and 6 deck edge antennas. These installs are required to utilize the T-RDF systems as carry-on hardware during critical missions.

February 2004

MODIFICATION TITLE: ECP/Obsolecence - SHIP COST CODE 1U013/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Technology refresh procures COTS/NDI equipment to replace obsolete and unsupportable equipment for the SSEE, COBLU, BGPHES-ST and COMBAT DF/ADAS programs. These changes allow for a common logistic support baseline for these programs and provides the hardware to support the DII COE/GCCS-M software upgrades.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THATTACHE TEXTA. (\$\pi\$ in minions)	P	Y	FY	02	FY	03	FY	04	FY	05	FY 06	FY	07	FY	08	FY	09	<u>T(</u>	7	To	tal
	Qty	\$	Oty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Oty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity					~ ~				~ ~											~ ~	
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	VAR	0.8	VAR	2.1	VAR	4.6	VAR	6.5	VAR	1.5		VAR	3.0	VAR	1.1	VAR	1.0		cont	VAR	cont
Equipment Nonrecurring																					
Engineering Change Orders																					
Data Training Equipment																					
Production Support				0.461		0.596		0.146		0.137			0.207		0.087		0.072		cont		cont
Other (DSA)				0.401		0.570		0.140		0.157			0.207		0.007		0.072		cont		Cont
Interm Contractor Support																					
Installation of Hardware			VAR	0.5	VAR	1.3	VAR	3.2	VAR	1.2		VAR	0.5	VAR	0.4	VAR	0.2		cont	VAR	cont
PRIOR YR EQUIP														,						VAR	0.0
FY 01 EQUIP																				VAR	0.0
FY 02 EQUIP			VAR	0.5																VAR	0.5
FY 03 EQUIP					VAR	1.3														VAR	1.3
FY 04 EQUIP							VAR	3.2												VAR	3.2
FY 05 EQUIP									VAR	1.2										VAR	1.2
FY 06 EQUIP																				VAR	0.0
FY 07 EQUIP												VAR	0.5							VAR	0.5
FY 08 EQUIP														VAR	0.4					VAR	0.4
FY 09 EQUIP																VAR	0.2			VAR	0.2
FY TC EQUIP				0.5									0.5				0.2		cont	VAR	cont
TOTAL INSTALLATION COST		0.0		0.5		1.3		3.2		1.2	0.0		0.5		0.4		0.2		cont	VAR	cont
TOTAL PROCUREMENT COST		0.8	l	3.1		6.5		9.9	CTD ATH	2.8	0.0	100	3.7	DD ODLIG	1.5	E A DED 4	1.3	(1400	cont	VAR	cont
METHOD OF IMPLEMENTATION:								ADMINI	STRATIV	E LEAD	TIME: 2 N	IOS		PRODUC	TION L	EADTIM	E:	6 MOS			

DELIVERY DATES:

			FY	03				FV	04				FV	05				FY 0	6				
INSTALLATION SCHEDULE:	PY	1	2	3	4	_	1	2	3	4	-	1	2	3	4	_	1	2	3	4			
INPUT	0																						
OUTPUT	0																						
INSTALLATION SCHEDULE:		1	2 <u>FY</u>	3	4		1	2	FY08 3	4		1	2	FY09 3	4						TC	TOTA	L

INPUT

OUTPUT

Notes/Comments

Cost Code: 1U013 Unit cost and quantity varies because the equipment being procured is COTS/NDI and supports all the programs within the Shipboard IW Exploit Budget.

ECP/OBSOLECENCE - SHORE MODIFICATION TITLE: 1U013/1U776

COST CODE MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

Technology refresh procures COTS/NDI equipment to replace obsolete and unsupportable equipment for the SSEE, COBLU, BGPHES-ST and COMBAT DF/ADAS programs. These changes allow for a common logistic support baseline for these programs and provides the hardware to support the DII COE/GCCS-M software upgrades.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY		Y 02		03	FY	04		05	FY 06	FY 07	FY 08	FY 09	<u>TC</u>		otal
	Qty :	S Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E																
PROCUREMENT:																
Kit Quantity																
Installation Kits																
Installation Kits Nonrecurring																
Equipment		VAR	1.0	VAR	0.3	VAR	0.3							cont.	VAR	con
Equipment Nonrecurring																
Engineering Change Orders																
Data																
Training Equipment																
Production Support *																
Other (DSA)																
Interm Contractor Support																
Installation of Hardware		VAR	0.2	VAR	0.4	VAR	0.1	VAR	0.1					cont.	VAR	con
PRIOR YR EQUIP															VAR	0.0
FY 01 EQUIP		VAR	0.2												VAR	0.0
FY 02 EQUIP				VAR	0.4										VAR	0.4
FY 03 EQUIP						VAR	0.13								VAR	0.1
FY 04 EQUIP								VAR	0.11						VAR	0.1
FY 05 EQUIP															VAR	0.0
FY 06 EQUIP															VAR	0.0
FY 07 EQUIP															VAR	0.0
FY 08 EQUIP															VAR	0.0
FY 09 EQUIP															VAR	0.0
FY TC EQUIP														cont.	var	con
TOTAL INSTALLATION COST	0	.0	0.2		0.4		0.1		0.1	0.0	0.0	0.0	0.0	cont.		con
TOTAL PROCUREMENT COST	0	.0	1.2		0.8		0.4		0.1	0.0	0.0	0.0	0.0	cont.		con
METHOD OF IMPLEMENTATION:					ADMIN	ISTRATIV	VE LEAT	TIME:	2 M	OS	PRODUCTION	LEADTIME:	6 MOS			

CONTRACT DATES:	ONTRACT DATES:	
-----------------	----------------	--

DELIVERY DATES:

			FY	03				FY 04				FY	05			FY	06	
NSTALLATION SCHEDULE:	PY	1	2	3	4	1	2		3	4	1	2	3	4	1	2	3	4
	<u> </u>																	

INPUT

OUTPUT

110/	<u>F Y U8</u>	1102		
INSTALLATION SCHEDULE: 1 2 3	1 2 3	1 2 3 4	TC	TOTAL

INPUT

OUTPUT

Notes/Comments \* Production Support shown on P-3A, ECP/OBS-Ship

Cost Code: 1U013 Unit cost and quantity varies because the equipment being procured is COTS/NDI and supports all the programs within the Shipboard IW Exploit Budget.

MODIFICATION TITLE: SSEE INCREMENT E V(1) - SHIP

COST CODE 1U017/1U777

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

(U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects data on any potential threat to the battle group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

making process and the national or strategic collection objective.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY	FY Or		FY			Y 04		7 05		06	FY		FY			Y 09	1 0	<u>TC</u>		otal e
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Qty \$	Qty	\$	Qty	\$		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment				4	11.3	11	40.2	9	32.4	4	16.6	16	76.8	12	50.4	13	53.9	36	152.3	105	434.0
Production Support Other (DSA)			0.2		1.1 0.3		4.1 1.6		2.7 0.5		1.0 0.8		3.8 1.5		3.0 1.5		4.1 1.6				19.7 8.0
Interm Contractor Support Installation of Hardware						4	2.1	11	5.8	9	4.9	4	2.2	16	9.0	12	6.9	49	29.1	105	60.0
PRIOR YR EQUIP FY 02 EQUIP																					
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP						4	2.1	11	5.8	9	4.9	4	2.2							4 11 9 4	2.1 5.8 4.9 2.2
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP														16	9.0	12	6.9	13 36	7.6 21.5	16 12 13 36	9.0 6.9 7.6 21.5
TOTAL INSTALLATION COST	0.0		0.2		0.3		3.6		6.4		5.7		3.7		10.5		8.5	30	29.1	30	68.0
TOTAL PROCUREMENT COST	0.0		0.2		12.7		48.0		41.5		23.2		84.3		63.9		66.4		181.4		521.7
METHOD OF IMPLEMENTATION:		•					ADMINIS'	TRATIVE	LEADTIN	ME:	3 MOS			PRODUCTI	ON LEAD	ГІМЕ:		12 MOS		•	
CONTRACT DATES:	FY 2003:	Jan-03			FY 2004	k:	Nov-03			FY 2005:		Nov-04									
DELIVERY DATES:	FY 2003:	Jan-04			FY 2004	k:	Nov-04			FY 2005:		Nov-05									
INSTALLATION SCHEDULE: PY	1 2	FY 03	4		1	2	FY 04 3	4		1	2 <u>1</u>	FY 05	4		1	2 <u>F</u>	<u>Y 06</u>	4			
INPUT				-		1	1	2	_		4	3	4	-		4	3	2			
OUTPUT						1	1	1		1	4	3	4			4	3	2			
001101							1	1		1	7	,	,			7	,	-			
INSTALLATION SCHEDULE:	1 2	<u>FY07</u> 3	4	-	1	2	FY08 3	4	_	1	2	<u>FY09</u> 3	4	-				TC		TOTAL	
INPUT	2	1	1		4	4	4	4			4	4	4					49		105	
OUTPUT	2	1	1		4	4	4	4			4	4	4					49		105	

Notes/Comments

SSEE Inc X is a spiral development program. FY03 - FY07 will procure Increment E. FY08 will introduce Increment F with new antenna design and P3I.

MODIFICATION TITLE: SSEE INCREMENT E V(1) - SHORE

COST CODE 1U017/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The SSEE Program will provide the battle group the capability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects

data on any potential threat to the battle group. This information, in conjunction with Combat/EW Systems and C3I elements, supports the tactical combat decision

making process and the national or strategic collection objective.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	PY	F	Y 02	F	Y 03	I	FY 04	F	Y 05	FY 0	<u> 16</u>	FY 0	<u>)7</u>	FY	08	FY	09		2	To	tal	
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty S	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support				2	5.7	3	11.0													5	16.6	
Other (DSA) interm Contractor Support installation of Hardware PRIOR YR EQUIP						2	0.4	3	0.6											5	1.0	
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP						2	0.4	3	0.6											2 3	0.4 0.6	
FY TC EQUIP TOTAL INSTALLATION COST	0.	0	0.0		0.0		0.4		0.6		0.0		0.0		0.0		0.0		0.0		1.0	
TOTAL PROCUREMENT COST ETHOD OF IMPLEMENTATION:	0.		0.0		5.7		11.4 ADMINIS	TRATIVE :	0.6	E: 3	0.0 MOS		0.0	PRODUCT	0.0	ADTIME	0.0	12 MOS	0.0		17.6	
ONTRACT DATES:	FY 2003:	Jan-03	i		FY 200	4:	Nov-03															
DELIVERY DATES:	FY 2003:	Jan-04	ļ		FY 200	4:	Nov-04															
NSTALLATION SCHEDULE: PY	1 2	FY 03 3	4	_	1	2	FY 04 3	4	_	1	2 FY	7 <u>05</u> 3	4	_	1	2 <u>FY</u>	<u>7 06</u> 3	4				
NPUT						1		1				1	2									
DUTPUT						1		1				1	2									
Nam		FY 07				_	FY08					FY09										_
INSTALLATION SCHEDULE:	12	3	4	_	1	2	3	4	-	1	2	3	4	_					•	TC		TO
INPUT																						
OUTPUT																						

MODIFICATION TITLE: Battle Group Passive Horizon Extension System-Surface Terminal (BGPHES-ST) -Ship

COST CODE 1U019/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: (U) The Battle Group Passive Horizon Extension System-Surface Terminal (BGPHES-ST) extends the Battle Groups line-of-sight radio horizon by controlling remote receivers in an aircraft sensor payload.

BGPHES-ST provides the ability for cryptologic operators to monitor, record, and analyze selected signal of interest. Reports can be prepared and information disseminated from BGPHES-ST via the

Tactical Intelligence Information Exchange System (TACINTEL), ADNS, or directly to the host ship's C4I network.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>P</u>	Y	FY	02	FY	03	FY	04	FY 05	<u>i</u>	FY 0	16	FY 07	FY 08		FY 09	<u>TC</u>	<u>.</u>	Tot	<u>:al</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty \$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Kit Quantity																				
Installation Kits																				
Installation Kits Nonrecurring																				
Equipment	12	17.6	2	3.4															14	21.0
Equipment Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Production Support		1.5		0.4		0.2														2.1
Other (DSA)		0.5		0.1		0.0		0.2												0.8
Interm Contractor Support																				
Installation of Hardware	12	8.5					2	1.0											14	9.5
PRIOR YR EQUIP	12	8.5																	12	8.5
FY 02 EQUIP							2	1.0											2	1.0
FY 03 EQUIP																				
FY 04 EQUIP																				
FY 05 EQUIP																				
FY 06 EQUIP																				
FY 07 EQUIP																				
FY 08 EQUIP																				
FY 09 EQUIP																				
FY TC EQUIP																				
TOTAL INSTALLATION COST		9.0		0.1		0.0		1.2		0.0		0.0	0.0		0.0	0.0		0.0		10.2
TOTAL PROCUREMENT COST		28.1		3.9		0.2		1.2		0.0		0.0	0.0		0.0	0.0		0.0		33.3
METHOD OF IMPLEMENTATION:								ADMIN	ISTRATIVE I	LEADTI	ME:		3 MOS	PRODUCTIO	N LE	EADTIME:		12 MOS		

CONTRACT DATES: FY 2002: Dec-01

DELIVERY DATES: FY 2002: Dec-02

INPUT 12 1 1

OUTPUT 12 1 1

INPUT

OUTPUT

### Notes/Comments

Installs were delayed to FY04 due to a change in ship availability.

14

14

MODIFICATION TITLE: Common Data Link - NAVY (CDL-N) - Ship

COST CODE 1U027/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: CDL-N provides a wideband data link between Navy/Joint Airborne systems and the shipboard processors of national tactical reconnaissance programs. It is designed to communicate with the BGPHES-ST, the

Joint Services Imagery Processing System - Navy (JSIPS-N), the Aircraft Carrier Tactical Support Center (CV-TSC), and the Joint Surveillance Target Attack Radar System (JSTARS).

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	1	PY	FY	7 02	FY	03	FY	04	FY 05		FY	06	FY	07	FY	08	FY	Y 09	<u>T</u>	·C	Tot	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring									3	8.7	1	2.5	5	12.8	2	5.2	3	8.0			14	37.1
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	14	84.8	2	13.0	3	17.4	6	21.3													25	136.5
Production Support Other (DSA) Interm Contractor Support				1.2 0.3		2.4 1.2		3.5 1.2		0.7 0.5		0.4 0.6		0.9 0.3		0.7		0.6				10.3 4.0
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP	11 11	12.1 12.1	3	2.8 2.8	1	1.4	2	2.9	3	3.3	5	5.8	4	4.6	5	5.8	2	2.3	3	3.5	39 14 2	44.4 14.9 2.9
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP							1	1.5	2 1	2.2	5	5.8	3	3.4 1.1	5	5.8		2.2			3 6 3 1 5	3.7 6.9 3.4 1.1 5.8
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		12.1		3.1		2.6		4.1		3.8		6.4		4.8		5.8	2	2.3	3	3.5	2 3	2.3 3.5 48.5
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST	-	96.9		17.3		22.3		28.8	-	13.2		9.3		18.4		11.6		10.9		3.5		232.3
METHOD OF IMPLEMENTATION:		90.9	l .	17.3	l .		ISTRATIV		TIME:	2 MOS			PRODUC	CTION LI	EADTIM		17 MOS			3.3		232.3
CONTRACT DATES:									FY 2003		Mar-03			FY 2004		Jan-04		FY 2005:		Dec-04		
DELIVERY DATES:							F77.04		FY 2003	:	Aug-04	EV. 05		FY 2004	:	Aug-05		FY 2005:		Jul-06		
INSTALLATION SCHEDULE: PY	1	<u>Y 03</u> 2	3	4	-	1	FY 04 2	3	4	=	1	FY 05 2	3	4	=	1	FY06 2	3	4	=		
INPUT 14				1			1		1		1		1	1		2	1	1	1			
OUTPUT 13	1					1		1			1	1		1		1	2	1	1			
INSTALLATION SCHEDULE:	1	<u>FY07</u> 2	3	4	<b>=</b>	1	<u>FY08</u> 2	3	4	<u>.</u>	1	FY09 2	3	4	<u>.</u>				TC	-	TOTAL	
INPUT	2	1	1					2	3				1	1					3		39	
OUTPUT	1	2	1	1					2		3			1					4		39	

Notes/Comments

1U027 - FY00 and prior are CHBDL systems. FY01 and FY02 are CDL-N systems, FY03 and out are CDL-N Block 1 systems. FY 05 will begin backfitting fielded CHBDL systems.

In support of Operation Enduring Freedom a shore system was moved to a ship in FY 02 to meet Naval Fires Network (NFN) emergent requirements. The redirection install was paid for by NFN DERF funding in the amount of \$1.4M.

MODIFICATION TITLE: Common Data Link - NAVY (CDL-N) - Shore

COST CODE 1U027/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: CDL-N provides a wideband data link between Navy/Joint Airborne systems and the shipboard processors of national tactical reconnaissance programs. It is designed to communicate with the BGPHES-ST,

the Joint Services Imagery Processing Sysem - Navy (JSIPS-N), the Aircraft Carrier Tactical Support Center (CV-TSC) and the Joint Survillance Target Attack Radar System (JSTARS).

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>P</u>	PΥ	FY (	12	FY 03		FY 0	<u>)4</u>	FY	05	FY 06		FY 07		FY 08	FY	09	TC		<u>T</u>	otal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	_
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support *	3	16.8			3 1	7.4	1	3.5												7	37.7	
Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP	3 3	2.3 2.3					1	0.5	2	1.0	1	0.5								7 3 3	4.3 2.3 1.5 0.5	
FY 06 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		2.3 19.1		0.0	1	0.0 7.4	STRATIVE	0.5 4.0 E LEADT	TIME	1.0 1.0 2 MOS		0.5 0.5		0.0 0.0 ON LE	0.0 0.0	17 MOS	0.0		0.0		4.3 42.0	
CONTRACT DATES:					FY 2003:		Mar-03				FY 2004		Jan-04	0., 22		17 1100						
DELIVERY DATES:					FY 2003:		Aug-04				FY 2004	l:	Aug-05									
INSTALLATION SCHEDULE: PY	1	2 <u>FY</u>	3	4		1	2 FY 0	3	4		1	2 <u>F</u>	<u>Y 05</u> 3	4	11	2 <u>F</u>	<u>Y 06</u> 3	4				
INPUT 3									1			1		1		1						
OUTPUT 3											1	1		1		1						
INSTALLATION SCHEDULE:	11	2 <u>FY</u>	3	4	· <u>-</u>	1	<u>FY (</u>	3	4			1	FY 09	3	4				-	TC		<u>TOTAL</u> 7

### Notes/Comments

OUTPUT

In support of Operation During Freedom a shore system was moved to a ship in FY 02 to meet Naval Fires Network (NFN) emergent requirements. The redirection install was paid for by NFN DERF funding in the amount of \$1.4M.

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<sup>\*</sup> Production Support shown on P-3A, CDL-N SHIP

<sup>1</sup>U027 - FY00 and prior are CHBDL systems. FY01 and FY02 are CDL-N systems, FY03 and out are CDL-N Block 1 systems. FY 05 will begin backfitting fielded CHBDL systems.

MODIFICATION TITLE: CDL-N Backfit Kits (NIU) - Ship February 2004

COST CODE 1U028/1U777

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: The NIU Kit (prevously known as DSM/ATM kits) provides a second Link Controller Rack with network interface capability, Sun workstation, wideband encryption, and command link upgrades.

The Video Interface Group (VIG) Kit provides an additional workstation that provides streaming video display, record, and playback capability to support TCDL Equipped Navy Aircraft.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)		_		****		***														m	~		
	i		<u>Y</u>	FY (			03	FY 04 Qty		FY 05 Qty	\$	FY 06 Qty	\$	FY 07 Qty		FY 0			7 09	<u>TC</u>		<u>Tot</u>	
RDT&E PROCUREMENT: Kit Quantity Installation Kits		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty		Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support * Other (DSA)		3	2.3	2	1.5	VAR	4.1	VAR	2.6													VAR	10.5
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP				3 3	0.4 0.4	2	0.5	VAR	3.3	VAR	2.6											VAR	6.8 0.5
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY TC EQUIP								VAR		VAR	2.6											VAR VAR	3.3 2.6
TOTAL INSTALLATION COST			0.0		0.4		0.5		3.3		2.6		0.0		0.0		0.0		0.0		0.0		6.8
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			2.3		1.9		4.6		5.9	ISTRATIV	2.6	TIME	0.0		0.0	PRODUCTI	0.0	ADTIMI	0.0	12 MOS	0.0		17.3
METHOD OF IMPLEMENTATION.									ADMIN	NISTRATIV	E LEAL	TIME.	2 MO3			FRODUCTI	ON LE.	ADIIMI	2.	12 WOS			
CONTRACT DATES:														FY 2003:		Mar-03				FY 2004	:	Dec-03	
DELIVERY DATES:														FY 2003:		Mar-04				FY 2004	:	Dec-04	
INSTALLATION SCHEDULE:	PY	1	2 <u>F</u>	Y 03 3	4	_	1	2 <u>F</u>	Y 04 3	4	_	1	<u>FY</u> 2	<u>7 05</u> 3	4		1	2 <u>FY</u>	<u>7 06</u> 3	4			
INPUT	3			2																			
OUTPUT	3			1	1																		
INSTALLATION SCHEDULE:		1	2 <u>I</u>	<u>3</u>	4	_	1	2	FY08 3	4	_	1	2	<u>FY09</u> 3	4					TC			TOTAL
INPUT																							5
OUTPUT																							5

### Notes/Comments

<sup>\*</sup> Production Support shown on P-3A, CDL-N Ship.

QTY changed to various in FY03 and name changed from NIU kits to CDL-N Backfit kits to include both NIU and VIG backfit kits.

NIU Kits backfit FY02 and prior CDL-N procurements. In FY03 the VIG capability will be introduced with CDL-N procurements and will backfit fielded systems.

MODIFICATION TITLE: CDL-N Backfit Kits (NIU) - Shore

COST CODE 1U028/1U776

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: The NIU Kit (prevously known as DSM/ATM kits) provides a second Link Controller Rack with network interface capability, Sun workstation, wideband encryption, and command link upgrades.

The Video Interface Group (VIG) Kit provides an additional workstation that provides streaming video display, record, and playback capability to support TCDL Equipped Navy Aircraft.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY		FY 02	FY 03		7 04	FY		FY 06	FY 07	FY 08	FY 09	<u>TC</u>	Tota	
	Qty	\$	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring															
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support * Other (DSA) Interm Contractor Support	3	2.3			VAR	1.0								VAR	3.3
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP		0.5 0.5					VAR	0.3						VAR 3	0.8 0.5
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP							VAR	0.3						VAR	0.3
TOTAL INSTALLATION COST		0.5	0.0	0.		0.0		0.3	0.0	0.0	0.0	0.0	0.0		0.8
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		2.8	0.0	0.	)	ADMIN	IISTRATI	0.3 VE LEA	0.0 ADTIME 2 MOS	0.0	PRODUCTION I	0.0 LEADTIME:	0.0 12 MOS	1	4.1
CONTRACT DATES:	FY 2001:				FY 200	2:				FY 2003:			FY 2004:	Dec-03	
DELIVERY DATES:	FY 2001:				FY 200	2:				FY 2003:			FY 2004:	Dec-04	
INSTALLATION SCHEDULE: PY	1	2 <u>FY</u>	3 4	1	2 <u>F</u>	<u>Y 04</u> 3	4		1 2 <u>FY</u>	<u>7 05</u> 3 4	11	FY 06 2 3	4		
INPUT 3															
OUTPUT 3															
INSTALLATION SCHEDULE:	1	2 <u>FY</u>	<u>707</u> 3 4	1	2	FY08 3	4		1 2	FY09 3 4	-			TC	TOTAL
INPUT															3
OUTPUT															3

Notes/Comments \* Production Support shown on P-3A, CDL-N, Ship.

QTY changed to various in FY03 and name changed from NIU kits to CDL-N Backfit kits to include both NIU and VIG backfit kits.

NIU Kits backfit FY02 and prior CDL-N procurements. In FY03 the VIG capability will be introduced with CDL-N procurements and will backfit fielded systems.

FY 05

FY 03

FY 04

MODIFICATION TITLE: IW TRAINING EQUIPMENT

COST CODE 1U029/1U776

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

IW Training equipment provides operator, unit or multi-unit level training on Tactical Cryptologic Systems (TCS). This training enhances initial skills, provides refresher taining and increases proficiency of the operator on the TCS through the generation and replay of operational scenarios by software simulation versus hardware stimulation.

FY 06

FY 07

FY 08

FY 09

TC

Total

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PY

FY 02

FINANCIAL PLAN: (\$ in millions)

			1.1		1.1			04		03	1.1.1		11		1.1		1.1			10		nai .	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders					VAR	1.0	VAR	5.5	VAR	1.5	VAR	0.0	VAR	0.8	VAR	0.8	VAR	0.8			VAR	10.3	
Data Training Equipment Production Support * Other (DSA) Interm Contractor Support						0.2		0.5		0.2		0.0		0.1		0.1		0.1				1.1	
Installation of Hardware					3	0.2	3	0.3	9	0.9	0	0.0	5	0.5	2	0.2	2	0.2			24	2.3	
PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP					3	0.2	3	0.3	9	0.9	0	0.0	5	0.5	2	0.2	2	0.2			3 3 9 0 5 2 2	0.2 0.3 0.9 0.0 0.5 0.2	
FY TC EQUIP		0.0		0.0		0.2		0.2		0.0		0.0		0.5		0.2		0.2				2.2	
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.0		0.0		0.2		0.3 6.3		0.9 2.5		0.0		0.5 1.4		0.2 1.0		0.2				2.3 13.7	
METHOD OF IMPLEMENTATION:		0.0		0.0			ISTRATIV		TIME.	2.5 1 M	100	0.0	DDODLIG		EADTIM		3 MOS	1.1				13.7	ļ
METHOD OF IMPLEMENTATION:						ADMIN.	ISTRATIV	VE LEAL	) I IME:	I IVI	108		PRODUC	JION L	EADTIM	E:	3 MOS						
CONTRACT DATES:	FY 2001:				FY 2002:				FY 2003:		Nov-03				FY 2004:		Nov-04			FY 2005	:	Nov-05	
DELIVERY DATES:	FY 2001:				FY 2002:				FY 2003:		Feb-04				FY 2004:		Feb-05			FY 2005	:	Feb-06	
		FY	03				FY	04				FY	05				FY	06					
INSTALLATION SCHEDULE: PY	1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4	_			
INPUT		1	1	1			1	1	1			3	3	3									
OUTPUT		1	1	1			1		1			3	3	3									
OUTPUT		1	1	1			1	1	1			3	3	3									
INSTALLATION SCHEDULE:	1	2 <u>FY</u>	<u>707</u> 3	4		1	2	FY08 3	4		1	2	<u>FY09</u> 3	4							TC		TOTAL
D IDV	_	_		-	-		-				_		-		-								2.4
INPUT		2	2	1			1	1				1	1										24
OUTPUT		2	2	1			1	1				1	1										24

Note: Install Quantities equates to the number of locations/sites where the equipment will go. FY04 Training equipment procurements have an extended leadtime due to contract negotiations.

### UNCLASSIFIED

### CLASSIFICATION

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	SMDA EQUIPMENT	05	10																													<b>†</b>		Α		$\neg$	2	2	2	4
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		I	PRODUCTION RAT	E		PROCUREME!	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
1U010 - T-RDF Antennas	SWRI SA, Texas	2	8	10						
1U017 - SSEE Phase 2 Increment E Variant 1	ARGON, VA	*	*	*						
1U020 - SMDA Equipment	EDO ESG, CA	2	12	24						
1U027 - CDL-N	Cubic, CA	2	8	10						

### NOTE:

\*SSEE is COTS procurement, there is no MSR or MAX

NAVMAT FORM 7110/4 (REVISED 11/77)

## UNCLASSIFIED CLASSIFICATION

	CLASSIFICATION																																						
						I	PRO	DU	J <b>C</b> T	IOI	N SC	HEI	DUI	LE																	DATI	E		Febr	uary 2	2004			
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COST	ITEM/MANUFACTURER/	FISCAL	CARRY		CAL	ENDA	R YE	AR (	05					CA	LEN	NDAR	YEA	R 06						CAL	ENDA	R YE	EAR 0	7							CY 08	3			A
CODE	PROCUREMENTY YEAR	YEAR	OVER	J U	J U					D E		F M E A		A M P A		J J U U						J A	F E	M A	A P	M A		J U	A U	S E	O C		D E		F E		A P	M A	T E
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NAVMAT FORM 7110/4 (REVISED 11/77)

### **UNCLASSIFIED**

		В	UDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
				P-40						Februa	ry 2004	
APPROPRIATION/BU	DGET ACTIVIT	ΓΥ					P-1 ITEM NOM	MENCLATURE				
OTHER PROCUR	EMENT, NA	VY/BA-2	2				SU	<b>B SUPPORT</b>	<b>EQUIPMEN</b>	T PROGRAM	1/256000/256	005
Program Element for 0	Code B Items:						Other Related	Program Eleme	nts			
	Prior	ID									То	
	Years	Code	FY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY												
COST												
(In Millions)				\$86.3	\$70.9	\$79.0	\$96.3	\$78.8	\$104.3	\$108.6	\$0.0	\$624.1
SPARES COST												_
(In Millions)												\$0.0

### **ES SYSTEMS**

This program consolidated the following programs in FY2000:

From: 251600 AN/WLQ-4

218000/05 Sonar Support Equipment

232000/05 AN/WLR-1

To: 256000/05 Submarine Support Equipment Program

### SSEP:

(U) The Submarine Support Equipment Program was established to develop and support systems which provide the capability to exploit signal intercepts for tactical support and early warning of threat sensors. The Electronic Warfare Support (ES) and ICADF Operational Requirements Document (ORD) Ser. No. 570-77-00 dated 20 Dec. 2000, established funding to procure AN/BLQ-10(V) Electronic Warfare Support (ES) systems to provide a modern ES capability to LOS ANGELES, SEAWOLF and OHIO Class submarines. Funds also procure Reliability, obsolescence and Operational Field Change Kits for the AN/WLR-8(V)2, a tactical ES Receiver for the LOS ANGELES Class submarines providing intercept, surveillance, and signal parameter analysis of electromagnetic signals for threat warning. Funds buy unique equipment in limited quantities that are maintained in a pool and rotated among attack submarines as dictated by scheduled operations and to provide specific capability improvements to major SSN sensor systems. This program also procures support equipment for shore based acoustic intelligence analysis centers, and procures field changes to the AN/WLR-8 (V)2 threat detection system and AN/BRD-7 direction finding system, as well as modification kits to the AN/WLR-1H(V)7 Countermeasures Receiving Set for CV/CVNs and WHEC Cutters.

A. ML001 - Procures the Troll COMINT Exploitation Suite commencing in FY-03. This line provides an enhanced COMINT exploitation capability for the AN/BLQ-10 (V)2/3 System in support of CVBG, fleet and national operational requirements, implements Maritime Cryptologic Architecture (MCA), and is synchronized with Navy IT-21 to deliver critical intelligence to tactical, theater, and national commanders in real time. Procures Delta Kit portion of CLASSIC TROLL carry-on equipment for advanced signal analysis and recording capability in forward deployed special operations.

B. ML002 - Procures the Interactive Multi-media Instruction (IMI) upgrade for the AN/BLQ-10 (V)1 Land Based Trainer in FY-03.

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OTHER PROCUREMENT, NAVY/BA-2	SUB SUPPORT EQUIPMENT PROGRAM/256000/5

- C. ML003 SSEP special support equipment allows the procurement of special purpose test equipment utilized by the Type Commander Groom Teams. Exact quantities vary from year to year based on Fleet requirements. Provides analysis equipment for SSEP Aural Analysis Booths at New London, CT; Pearl Harbor, HI; and San Diego, CA. Equipment is used for analysis of AN/BQH-5(V)4 acoustic intelligence data. Variable quantities and types are bought in each fiscal year.
- D. ML005 Procures AN/BRD-7 Reliability and Maintainability (R&M), obsolescence and operational Field Change Kits (i.e.); Digital Compression Filter, and related H,M&E sail components.
- E. ML007 Procures the ICADFcommunications direction finding system below deck units for installation on LOS ANGELES and SEAWOLF Class submarines.
- F. ML008 Procures the ICADF antenna for installation on LOS ANGELES and SEAWOLF Class submarines.
- G. ML009 Procures AN/BLQ-10 (V) Advance Processor Build (APB-EW) software builds for installation on LOS ANGELES and SEAWOLF Class submarines.
- H. ML010 Procures AN/BLQ-10 (V) APB-EW technical refresh upgrades hardware builds including the Digital Radio Frequency Processing upgrade and VME Receiver for installation on LOS ANGELES and SEAWOLF Class submarines.
- I. ML011 Procures AN/WLR-8 R&M Field Change Kits (i.e.); Digital Display Unit (DDU) obsolescence upgrade.
- J. ML013 Procures special purpose test equipment to aid in testing and troubleshooting ES Systems at the Submarine Intermediate Maintenance Activity (IMAs) and depot facilities.
- K. ML015 Procures the AN/BLQ-10(V)2/3/4 ES System for installation on LOS ANGELES, SEAWOLF and TRIDENT Class submarines.
- L. ML017 Procures AN/BLQ-10 (V) Product Improvement Field Change Kits including: Passive Surveillance Radar/ES Vulnerability Server (PSR/EVS) upgrade, GALE LITE upgrade, Info Assurance (IA)/Solaris upgrade, Exterior Comms System (ECS) Point to Point upgrade, SIGINT carry-on equipment racks, LPI Radar Receiver, and Submarine Weapon Systems upgrades. Also procures High Probability Intercept (HPI) Reliability & Maintainability and obsolescence Field Change Kits (i.e.); Control Display Processor Unit (CDPU) and Receiver Processor Unit (RPU).
- M. ML5IN Provides for the Installation of Equipment including Fleet Modernization Program Installations for shipboard systems.
- N. MLDSA The budget reflects the transfer of design services into the appropriate equipment P1 line item in accordance with full funding policy.

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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2	SUB SUPPORT EQUIPMENT PROGRAM/256000/25	6005
	•	

### AN/WLQ-4

- (U) This line procures upgrades to the AN/WLQ-4(V)1 and modification kits resulting from redesign of obsolescent subassemblies of the AN/WLQ-4(V) Submarine ESM Systems. It supports training curricula updates for the WLQ-4(V)1 System. It procures upgrades to the AN/WLQ-4(V)/(V)1 software support and maintenance support equipment. Funding also procures Test Program Sets (TPS) which provide technical and workload capability to test all analog, digital, radio frequency, and hybrid spare units of the AN/WLQ-4(V)/(V)1 systems. TPSs are used with existing Automatic Test Equipment (ATE) located at the Repair Depot, SSC, San Diego. The Repair/Test Stations inlude ATE, TPS, test fixtures special repair tools, test equipment and documentation. The description of each building block line item is as follows:
- A. ML019 Reliability & Maintainability Mod Kits provides various AN/WLQ-4(V)1 upgrades, AN/WLQ-4(V)/(V)1 obsolescence replacement kits, R&M Kits and Software Support Activity (SSA) equipment upgrades.
- B. ML021 AN/WLQ-4(V)1 Trainer Procures curriculum updates associated with system upgrades and various R&M Mod Kits.
- C. ML022 AN/WLQ-4(V)1 Depot Upgrade Provides various upgrades to system Test Program Sets (TPS) as well as upgrades to Depot Test Support Equipment.
- D. ML024 AN/WLQ-4(V)1 Intermediate Maintenance Activity (IMA) Support.

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OTHER PROCUREMENT, NAVY/BA-2	SUB SUPPORT	FEQUIPMENT PROGRAM/256000/256005
,		

### **SONAR SUPPORT EQUIPMENT\***

Program provides significant OPNAV approved performance enhancement field changes for in-service ASW sonars on submarines. It also provides life cycle support in producing field changes required because of aging, obsolete, or unreliable components or casualities. Funding is included for the installation of equipment including Fleet Modernization Program installations, trainer and shore site installations. In addition, various modifications to sonar general equipments are procured. This funding includes execution of the following major upgrades:

A. ML025 - Procures planned improvements for ancillary sonars, including their support equipment and materials

Procured the AN/BQN-17 Upgrade in FY02 and FY03.

Procured the AN/BQS-15 EC-19 Precision Bottom Mapping Upgrade in FY02. This upgrade assists the ship in making decisions on how to safely exit the minefield. The total objective is thirty two (32) kits. Nine (9) kits were procured in FY02; five (5) kits procured in FY03.

- B. ML830 Funds production engineering services that support procurement and installation of these systems. (Funds reprogrammed in FY-03 to Cost Code ML025)
- C. ML900 Funds consulting services that support procurement and installation of these systems. (Funds reprogrammed in FY-03 to Cost Code ML025)
- D. ML5IN Funds actual hardware installation during shipyard availabilities.

\* Note: Starting in FY-04, this Program is funded in BLI# 214700/SSN Acoustics (H2SA).

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APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	,
OTHER PROCUREMENT, NAVY/BA-2	SUB SUPPORT	EQUIPMENT PROGRAM/256000/256005
AN/WLR-1H AIR - N78  A. ML027 - FY03-FY04 funding is for the procurement of modification kits required to replace obsolete an	d high maintenance components	on CV/CVNs.
B. ML5IN: FY03-FY04 funding is for the installation of modification kits required to replace obsolete and hi	gh maintenance components on	CV/CVNs.
AN/WLR-1 SURFACE - N76		
SURFACE WARFARE (N76):		
A. ML028 - FY03-FY09 funding is for the procurement of modification kits required to replace obsolete and Cutters.	d high maintenance components	and to extend the life cycle of the system on WHEC Class
B. ML5IN: FY03-FY04 funding is for the installation of modification kits required to replace obsolete and hi	gh maintenance components on	WHEC Class Cutters.
P-1 SHOPPING LIST	CL ASSIFICATI	ONI

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	WEAPONS SYSTEM CO P-5	OST AN	IALYSIS			Weapon S	ystem							DATE: Februa	rv 2004
APPROP	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD	)				i ebiua	1 y 2004
	ocurement, Navy														
BA2: C0	OMMUNICATION & ELECTRONIC EC	UIPME				Α	SUB SUF	PORT EQU	IIPMENT P	ROGRAM	I/H2ML/256	000			
			TOTAL COS	T IN THOUS	SANDS OF DO	LLARS									
COST	ELEMENT OF COST	ID						FY 2003			FY 2004			FY 2005	
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
				-									-		
	SUBMARINE WARFARE (N77)														
ML001	TROLL COMINT Exploitation Suite	Α					4	3,675	14,700	4	3,734	14,935			0
ML002	AN/BLQ-10(V) I RAINER InterActive Multi- Media Instruction Package (IMI)	А					1	3,100	3,100			0			0
ML003	SSEP Special Support Equipment	Α							256			260			265
ML005	AN/BRD-7 FCKs	А							637			721			735
ML007	ICADF			3	4,280	12,840	2	6,626	13,251	7	1,297	9,079			
ML008	ICADF Antenna	А					5	2,115	10,575	6	1,548	9,289	7	1,504	10,529
ML009	APB - EW	А							657			668			1,452
ML010	Tech Refresh Upgrades	А							0			3,456			2,093
ML011	AN/WLR-8 R&M FCKs	Α							826			509			519
ML013	ESM IMA Support	Α							157			176			179
ML015	AN/BLQ-10(V) SSN ES System	Α					6	5,599	33,596	2	9,144	18,288	5	7,249	36,244
ML017	AN/BLQ-10(V) FCKs	А							737			3,701			5,218
ML019	Reliability Modification Kits - WLQ-4	А							81			0			C
ML021	AN/WLQ(V) Trainer	А							309			0			C
ML024	AN/WLQ-4(V)1 IMA Support	А							24			0			C
	SUB-TOTAL PROCUREMENT		0				o l		78,495			65,254			66,313

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P-1 SHOPPING LIST ITEM NO. 45 CLASSIFICATION:

**UNCLASSIFIED** CLASSIFICATION:

CLASSIFICA	ATION: UNCLASSIFI														
	WEAPONS SYSTEM CO P-5	OST AN	ALYSIS			Weapon Sy	stem							DATE:	ary 2004
APPROPI	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATUR	RE/SUBHEAD					Lenin	ai y 2004
	ocurement, Navy/BA-2														
BA2: CC	MMUNICATION & ELECTRONIC EQ	UIPME				Α	SUB SUP	PORT EQU	IPMENT P	ROGRAM	H2ML/2560	00			
			TOTAL COS	T IN THOUS	ANDS OF DOI	LLARS									
COST	ELEMENT OF COST	ID						FY 2003			FY 2004			FY 2005	
CODE		Code	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			10101 0001	Quantity	OTHE COSE	10101 0001	Quantity	OTHE COSE	Total Goot	Quantity	OTHE COSE	10101 0001	Quantity	OTHE GOOD	Total Cost
	SUBMARINE WARFARE (N77)														
ML025	Ancillary Sonar Improvement	Α													
	AN/BQS-15 EC-19 (Bottom Mapping)						5	247	1,237			0			0
	AN/BQN-17 (Upgrade)								318			0			0
ML027	Air AN/WLR-1H(V)7 Mod Kits - N78	Α					0	0	0	1	513	513			α
ML028	Surface AN/WLR-1H(V)7 Mod Kits - <b>N76</b>	Α					3	473	1,418	2	564	1,127			111
ML830	Sonar Production Support	Α							0			0			0
ML900	Sonar Consulting Services	Α							0			0			0
	SUB TOTAL PROCUREMENT								2,973			1,640			111
	TOTAL PROCUREMENT								81,468			66,894			66,424
ML5IN	FMP Installation of Equipment														
	ICADF	Α							0			0			1,068
	ICADF DSA	Α							0			0			267
	ICADF Antenna	Α							0			0			2,635
	ICADF Antenna DSA	Α							0			0			657
	AN/BLQ-10(V) SSN ES System	Α							2,795			2,923			5,896
	AN/BLQ-10(V) SSN ES System DSA	Α							941			590			1,231
	SIGINT Carry-On Equipment Racks	Α							0			0			632
	SIGINT Carry-On Equipment Racks DSA	Α							0			0			158
	AN/UNQ-9 (IDARS Replacement)	Α							65			0			0
	AN/UNQ-9 (IDARS Replacement) DSA	Α							30			0			0
	AN/BQS-15 (EC-19 Bottom Mapping)	Α							180			0			C
	AN/BQS-15 (EC-19 Bottom Mapping)DSA	Α							68			0			0
	AN/BQN-17 Upgrade - N77	Α							180			0			0
	AN/BQN-17 DSA - N77	Α							65			0			0
	Air AN/WLR-1H(V)7 - N78	Α							32			112			0
	Surface AN/WLR-1H(V)7 - N76	A							426			352			0
	SUB TOTAL FMP INSTALL	'`							4,782			3,977			12,544
	GRAND TOTAL		0			0	)		86,250			70,871			78,968
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# CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREME	NT HISTOR	Y AND PL	ANNING EXHIBIT (	P-5A)		Weapon System		A. DATE		
			,	,		, ,		I	February 20	004
B. APPROPRIATION/BUDGET AC	TIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, Nav	/y				SUB SUPPO	RT EQUIPMENT PROG	<b>RAM/256</b>	000/05	H2	ML.
BA-2										
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY-03										
ML001-Troll COM. Expl.	4	3675	CNSG	10/02	SS/FFP	Argon, VA Chantilly, VA	7/03	1/05	YES	N/A
ML002-AN/BLQ-10(V) trainer IMI Upgrade	1	3100	NSSSO	10/02	SS/FFP	Lockheed Martin, NY	7/03	1/05	YES	N/A
ML007-ICADF	3	4280	NSSSO	10/02	SS/FFP	Argon, VA	7/03	1/05	YES	N/A
ML008-ICADF Antenna	5	2115	NSSSO	10/02	SS/FFP	Argon, VA	7/03	1/05	YES	N/A
ML015- AN/BLQ-10	6	5599	NSSSO	10/02	SS/FFP	Lockheed Martin, NY	3/03	9/04	YES	N/A
ML025 AN/BQS-15 EC-19	5	247	NAVSEA	10/02	C/FP	NSWC CRANE, IN	10/02	7/03	YES	N/A
ML028 Sur.WLR-1H(V)7MK	3	473	NAVSEA	01/03	C/FFP	Wideband Systems NJ	02/03	8/03	YES	N/A
FY-04										
ML001-Troll COM. Expl.	4	3734	CNSG	10/03	SS/FFP	Argon, VA	3/04	9/05	YES	N/A
ML007-ICADF	2	6626	NSSSO	10/03	SS/FFP	Lockheed Martin, NY	6/04	12/05	YES	N/A
ML008-ICADF Antenna	6	1548	NSSSO	10/03	SS/FFP	Lockheed Martin, NY	6/04	12/05	YES	N/A
ML015- AN/BLQ-10	2	9144	NSSSO	10/03	SS/FFP	Lockheed Martin, NY	6/04	12/05	YES	N/A
ML027Air WLR-1H(V)7MK	1	513	NAVSEA	01/04	C/FFP	Wideband Systems NJ	02/04	8/04	YES	N/A
ML028 Sur.WLR-1H(V)7MK	2	564	NAVSEA	01/04	C/FFP	Wideband Systems NJ	02/04	8/04	YES	N/A
FY-05										
ML007-ICADF	7	1297	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	4/05	10/06	YES	N/A
ML008-ICADF Antenna	7	1504	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	4/05	10/06	YES	N/A
ML015- AN/BLQ-10	5	7249	NSSSO	10/04	SS/FFP	Lockheed Martin, NY	4/05	10/06	YES	N/A
						1	1			

D. REMARKS

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CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	AL MO	DIFICA	TION																	February 2004
MODELS OF SYSTEM AFFECTED:		System CON	MMS D	<u>F</u>	TYP	E MODII	FICAT	ION:	Shipa	alt		_			MOD	IFICATI	ON T	ITLE:	ICAE	F (Below [	Decks)	
DECORIDE ON A HOTELOATION.	ML00	07		='								-										
DESCRIPTION/JUSTIFICATION:  Provides advanced low-band COMINT Dir	ection	Finding (D	F) cap	ability co	ompati	ble with (	CLAS	SIC TRO	)II and	AN/BLO	0-10 S	SN FS s	system	Replac	ces ob	solete A	N/BRI	D-7 belo	w dec	ks equipme	ent with mod	dern open-
architecture system compliant with Maritim					ompat.	olo with	OL/ (O	010 1110	LL and	27 (I V) DEC	x 10 0	011 20 0	) y o to ii	. Поріас	00 00	ooloto 7 t	10010	5 7 5010	400	no oquipino	one with mo	acini, open
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILES	TONES	S:								-										
		002 & Prior		<u>FY</u>		Y 2003		<u> 2004</u>		2005		2006		Y 2007		2008		2009		<u>TC</u>		<u>TOTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					3	12.8	2	13.2	7	9.1	6	8.7	6	8.3	6	9.0	6	9.1	21	32.0	57	102.2
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0

3

0.0

12.8

1.3

2

0.9 7

2.9

INSTALL COST

TOTAL PROCUREMENT

 13.2
 7
 9.1
 6
 8.7
 6
 8.3
 6
 9.0
 6
 9.1
 21
 32
 57
 102.2

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2.8 6

2.9 33

16.4

57

27.2

6

CLASSIFICATION: UNCLASSIFIED February 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: ES System COMMS DF MODIFICATION TITLE: ICADF (Below Decks) ML007 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months CONTRACT DATES: FY 2002: N/A FY 2003: Jul-03 FY 2004: Jun-04 FY 2005: Apr-05 DELIVERY DATE: FY 2005: Oct-06 FY 2002: N/A FY 2003: Jan-05 FY 2004: Dec-05 (\$ in Millions) Cost: FY 2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Qty Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty \$ \$ Qty FY 2002 & PRIOR 0.0 0.0 FY 2003 EQUIPMENT 1.3 FY 2004 EQUIPMENT 0.9 0.9 FY 2005 EQUIPMENT 2.9 2.9 FY 2006 EQUIPMENT 2.8 2.8 2.9 FY 2007 EQUIPMENT 6 2.9 FY 2008 EQUIPMENT 6 2.9 2.9 6 FY 2009 EQUIPMENT 3.0 3.0 TO COMPLETE 21 10.5 10.5 INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC & Prior 3 2 3 3 3 3 **TOTAL** 0 0 0 0 3 3 33 0 57 In Out 57

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CLASSIFICATION: UNCLASSIFIED		INIDIO (IDII)		DIFIOA	TION																	February 2004
P3A		INDIVIDUA	AL MO	DIFICA	HON																	
MODELS OF SYSTEM AFFECTED:	ES S	System CON	/MS D	<u>F</u>	TYP	E MODII	FICATI	ION:	Shipa	ılt		_			MOD	DIFICATI	ON TI	ITLE:	ICAE	OF Antenna		
DESCRIPTION/JUSTIFICATION:	IVILU	06																				
Synchronizes improved low-band direction system compliant with Maritime Cryptolog			ensor	with co	ordinat	ted N77/0	CNSG	CLASS	IC TRO	DLL procu	ıreme	nt. Repla	ices o	bsolete A	AN/BR	D-7 ante	enna e	equipmer	nt with	modern, o	pen-archite	cture
system compliant with Maritine Cryptolog	IC AICI	illecture.																				
DEVELOPMENT STATUS/MAJOR DEVEL	.OPME	ENT MILES	TONE	S:																		
	FY 2	002 & Prior		FY	F'	Y 2003	FY	2004	ΕY	2005	F۱	/ 2006	F'	Y 2007	FΥ	<u>/ 2008</u>	F۱	<u>/ 2009</u>		<u>TC</u>	7	TOTAL
	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT					5	10.6	6	9.3	7	10.5	6	9.4	6	9.6	6	9.5	6	9.7	15	24.3	57	93.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INCTALL COCT									_	2.2	_	4.4	7	4.0	_	4.0	_	4.0	0.7	20.0		40.4

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9.7

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93.0

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9.3

TOTAL PROCUREMENT

CLASSIFICATION: UNCLASSIFIED February 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: ES System COMMS DF MODIFICATION TITLE: ICADF Antenna ML008 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: 6 Months 18 Months CONTRACT DATES: FY 2002: N/A FY 2003: Jul-03 FY 2004: Jun-04 FY 2005: Apr-05 DELIVERY DATE: N/A FY 2005: Oct-06 FY 2002: FY 2003: Jan-05 FY 2004: Dec-05 (\$ in Millions) FY 2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Cost: Total Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty Qty \$ \$ Qty \$ \$ FY 2002 & PRIOR 0.0 FY 0 0.0 3.3 FY 2003 EQUIPMENT 3.3 6 FY 2004 EQUIPMENT 4.1 4.1 4.3 FY 2005 EQUIPMENT 4.3 FY 2006 EQUIPMENT 4.2 6 4.2 6 4.3 FY 2007 EQUIPMENT 4.3 FY 2008 EQUIPMENT 4.4 6 4.4 FY 2009 EQUIPMENT 4.5 6 4.5 TO COMPLETE 11.3 15 11.3 INSTALLATION SCHEDULE: TC FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 3 3 2 3 3 3 TOTAL & Prior 0 3 3 3 27 In 57 27 Out 0 0 3 57 P-3A

ITEM

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED		February 2004
P3A		INDIVIDUAL MODIFICATION	

ML015

AN/BLQ-10 SSN ES Backfit Sys TYPE MODIFICATION: Shipalt

MODIFICATION TITLE:

AN/BLQ-10(V)2/3/4

DESCRIPTION/JUSTIFICATION:

MODELS OF SYSTEM AFFECTED:

Provides fully Integrated, covert, forward area radar signal intercept and ID capability for installation on LOS ANGELES and SEAWOLF Class, and SSGN Project Submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2	002 & Prior		<u>FY</u>	<u>F\</u>	2003	<u>FY</u>	2004	FY	2005	FY	2006	<u>F</u>	2007	FY	2008	FΥ	2009		<u>TC</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	8	37.1			6	33.6	2	18.3	5	36.2	9	59.7	7	45.0	8	52.0	7	46.3	5	7.4	57	335.6
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																						0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	3	2.7			2	3.7	3	3.5	5	7.1	3	3.8	5	5.8	9	11.8	7	9.3	20	29.5	57	77.2
TOTAL PROCUREMENT	8	37.1	0	0.0	6	33.6	2	18.3	5	36.2	9	59.7	7	45.0	8	52.0	7	46.3	5	7.4	57	335.6

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED February 2004 INDIVIDUAL MODIFICATION (Continued) P3A (Continued) MODELS OF SYSTEMS AFFECTED: <u>AN/BLQ-10 SSN ES Backfit Sys.</u> MODIFICATION TITLE: AN/BLQ-10(V)2/3/4 ML015 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months CONTRACT DATES: FY 2002: Mar-02 FY 2003: Mar-03 FY 2004: Jun-04 FY 2005: Apr-05 DELIVERY DATE: FY 2002: Sep-03 FY 2003: Sep-04 FY 2004: Dec-05 FY 2005: Oct-06 (\$ in Millions) FY 2002 & Prior FY FY 2003 FY 2004 FY 2007 Cost: FY 2005 FY 2006 FY 2008 FY 2009 To Complete Total Qty Qty \$ Qty Qty Qty Qty Qty Qty Qty Qty Qty \$ **FY 2002 & PRIOR** 2.7 7.2 3.7 3.5 FY 0 0.0 5 **FY 2003 EQUIPMENT** 7.1 1.3 8.4 FY 2004 EQUIPMENT 2.5 2.5 **FY 2005 EQUIPMENT** 5.8 5.8 **FY 2006 EQUIPMENT** 11.8 11.8 **FY 2007 EQUIPMENT** 9.3 9.3 **FY 2008 EQUIPMENT** 11.8 11.8 **FY 2009 EQUIPMENT** 10.3 10.3 TO COMPLETE 7.4 7.4 INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2005 TC FY 2004 FY 2006 FY 2007 FY 2008 FY 2009 & Prior 3 3 4 3 4 3 3 3 2 3 TOTAL 2 0 2 2 2 3 3 2 3 20 In 3 1 0 0 0 0 1 1 0 2 1 0 2 1 57 Out 3 0 0 2 0 0 2 2 0 1 1 0 2 2 1 0 3 3 3 20 57

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED		DIBD (F:		DIEIO:																		February 2004
P3A		INDIVIDU	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	AN/B ML01	3LQ-10 SSI	N ES B	ackfit S	<u>ys</u> TYP	E MODI	FICAT	ION:	Shipa	alt		-			MOD	IFICATI	ON TI	TLE:	PSR	/ES Vulner	ability Serve	er
DESCRIPTION/JUSTIFICATION:	IVILUI	1																				
Provides forward deployed SSN with abilit susceptibility to detection by threat radars.										reat rada	ır pictu	ire in rea	I time	. ES Vul	nerabi	lity Serv	er pro	vides ca	pabilit	y to monito	or own ship's	3
susceptibility to detection by threat radars.	. Syste	ems are mu	egrate	i into Ai	WBLQ.	- 10 mair	iirame	ES Syst	em.													
DEVELOPMENT STATUS/MAJOR DEVEL	.OPME	NT MILES	TONE	S:																		
	FY 2	002 & Prior		FY	E/	r 2003	F۱	<u>/ 2004</u>	E/	Y 2005	F۱	′ 2006	E,	Y 2007	ΕV	2008	F۱	<u>/ 2009</u>		<u>TC</u>		TOTAL
	QTY		QTY		QTY			\$	QTY			\$	QTY		QTY		QTY		QTY	<u>10</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT											6	3.2			2	1.1	2	1.1	6	3.3	16	8.7
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0

INSTALL COST

TOTAL PROCUREMENT

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6 0.3

10

0.5

16

CLASSIFICATION: UNCLASSIFIED

8.0

8.7

CLASSIFICATION: UNCLASSIFIED February 2004 INDIVIDUAL MODIFICATION (Continued) P3A (Continued) MODELS OF SYSTEMS AFFECTED: AN/BLQ-10 SSN ES Backfit Sys. MODIFICATION TITLE: PSR/ES Vulnerability Server ML017 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 6 Months 18 Months CONTRACT DATES: FY 2003: FY 2004: FY 2002: N/A N/A FY 2005: N/A N/A DELIVERY DATE: N/A N/A N/A FY 2002: FY 2003: FY 2004: FY 2005: N/A (\$ in Millions) FY 2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Cost: To Complete Total Qty Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty Qty \$ Qty Qty Qty \$ \$ \$ **FY 2002 & PRIOR** 0.0 0.0 FY 2003 EQUIPMENT 0.0 FY 2004 EQUIPMENT 0.0 FY 2005 EQUIPMENT 0.0 FY 2006 EQUIPMENT 0.3 0.3 FY 2007 EQUIPMENT 0.0 FY 2008 EQUIPMENT 0.1 0.1 FY 2009 EQUIPMENT 0.1 0.1 TO COMPLETE 0.3 0.3 INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC 2 3 3 3 & Prior 3 **TOTAL** 0 0 0 0 0 2 2 10 In 16 Out 0 0 0 0 0 10 16

ITEM

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						February 2004
P3A		INDIVIDU	AL MC	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:		BLQ-10 SSN	N ES E	ackfit S	<u>ys</u> TYP	E MOD	IFICAT	ION:	Shipa	alt		_			MOD	IFICAT	ION T	ITLE:	GAL	E LITE (LC	NG TERM	1
DESCRIPTION/JUSTIFICATION:	ML01	17																				
Provides forward-deployed SSNs with cap	ability	to access r	nationa	al SIGIN	T sens	or data	via dire	ect dowr	link for	enhance	ed situ	ational a	awarer	ess in lit	toral o	peration	ıs.					
L DEVELOPMENT STATUS/MAJOR DEVEL	TUS/MAJOR DEVELOPMENT MILESTONES:    FY 2002 & Prior																					
FY 2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC TOTAL  QTY \$																						
	QTY \$																					
FINANCIAL PLAN (IN MILLIONS)																						
	QTY \$																					
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT															3	0.3	3	0.3	24	2.4	30	3.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST																			30	1.3	30	1.3
TOTAL PROCUREMENT															3	0.3	3	0.3	24	2.4	30	3.0
								ITEM	45	F	PAGE	1	9						CLA	SSIFICATI	ON: UNCL	ASSIFIED

CLASSIFICATION: UNCLASSIFIED February 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: AN/BLQ-10 SSN ES Backfit Sys. MODIFICATION TITLE: GALE LITE (LONG TERM) ML017 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: 6 Months 18 Months CONTRACT DATES: FY 2002: FY 2003: FY 2004: N/A N/A FY 2005: N/A N/A DELIVERY DATE: FY 2003: N/A FY 2005: N/A FY 2002: N/A N/A FY 2004: (\$ in Millions) Cost: FY 2002 & Prior FY FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 Total To Complete Qty Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty Qty \$ Qty \$ Qty \$ \$ Qty FY 2002 & PRIOR 0.0 0 0.0 FY 2003 EQUIPMENT 0.0 FY 2004 EQUIPMENT 0.0 FY 2005 EQUIPMENT 0.0 FY 2006 EQUIPMENT 0.0 0.0 FY 2007 EQUIPMENT 0 FY 2008 EQUIPMENT 0.2 0.2 3 FY 2009 EQUIPMENT 0.2 0.2 TO COMPLETE 1.2 24 1.2 INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC & Prior 3 2 3 3 3 **TOTAL** 3 0 0 0 0 0 0 0 0 0 0 0 30 0 0 0 In 30 0 Out 0 0 0 0 30 30

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED		111011111111111111111111111111111111111		DIEIOA																		February 2004
P3A		INDIVIDUA	L MO	DIFICA	ION																	
MODELS OF SYSTEM AFFECTED:	AN/E	BLQ-10 SSN	I ES B	ackfit Sy	<u>s</u> TYP	E MODII	FICATI	ON:	Shipa	lt		_			MOD	IFICATI	ON TI	TLE:	SIGI	NT Carry-o	on Equip Ra	cks
DESCRIPTION/JUSTIFICATION:	MLU	1																				
Provides permanent infrastructure (racks,							GINT s	special o	operatio	ns carry	-on ec	quipmen	t. Ena	bles effic	cient ca	arry-on e	equipm	nent inst	allatio	n/de-instal	ation associ	ated with
deployment, resulting in significant cost sa	ivings	and less we	ar/tea	r on snip	& cre	·W.																
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	ENT MILEST	TONES	S:																		
	FY 2	002 & Prior		FY	F۱	2003	FY	2004	FY	2005	F۱	<b>/</b> 2006	F	Y 2007	FΥ	2008	FΥ	2009		<u>TC</u>		ΓΟΤΑL
	QTY			\$	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							8	2.0													8	2.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST									8	0.8										0.0	8	0.8

8

TOTAL PROCUREMENT

 2.0
 0
 8
 2.0

 ITEM 45
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 CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED February 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: AN/BLQ-10 SSN ES Backfit Sys. MODIFICATION TITLE: SIGINT Carry-on Equip Racks ML017 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: 6 Months 12 Months CONTRACT DATES: FY 2002: FY 2003: FY 2004: N/A N/A N/A FY 2005: Apr-05 DELIVERY DATE: N/A FY 2002: FY 2003: N/A FY 2004: FY 2005: Apr-06 N/A (\$ in Millions) FY 2002 & Prior FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total Cost: Qty Qty \$ Qty Qty Qty \$ Qty Qty \$ Qty \$ Qty Qty \$ \$ \$ Qty \$ \$ **FY 2002 & PRIOR** 0.0 FΥ 0.0 FY 2003 EQUIPMENT 0.0 FY 2004 EQUIPMENT 0.8 0.8 FY 2005 EQUIPMENT 0.0 FY 2006 EQUIPMENT 0.0 FY 2007 EQUIPMENT 0.0 FY 2008 EQUIPMENT 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC 3 2 3 & Prior **TOTAL** 0 0 2 0 0 0 0 0 0 0 0 0 0 In 8 0 Out 0 0 0 0 0 0 8 P-3A

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						February 2004
P3A		INDIVIDUA	AL MO	DIFICA	TION									·		·		·				
MODELS OF SYSTEM AFFECTED:		BLQ-10 SSN	I ES B	ackfit Sy	<u>/s</u> TYP	E MODI	FICATI	ON:	Shipa	lt					MOD	IFICATI	ON TI	ITLE:	Infor	mation Ass	urance (IA)	/Solaris
DESCRIPTION/JUSTIFICATION:	ML01	17																				
Enables SSN to coordinate with other frie	ndly S	IGINT interd	cept sy	stems to	accu	rately de	termin	e geolo	cation o	of threat	emitte	S.										
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILES	TONE	S:																		
	FY 2	2002 & Prior		FY	F۱	<b>/</b> 2003	FY	2004	FY	2005	FY	2006	F'	Y 2007	FΥ	2008	F١	2009		TC	٦	ΓΟΤΑL
	QTY			\$	QTY		QTY		QTY	\$		\$		\$		\$		\$	QTY	TC \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
									-												_	
RDT&E			+																		0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT											6	2.7			4	1.9	6	2.9			16	7.5
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST															6	0.8			10	1.3	16	2.1

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6

2.7

1.9

6

2.9

0.0

16

7.5

TOTAL PROCUREMENT

CLASSIFICATIO		LASS	IFIED																											February 2004
P3A (Continued)						INDIV	IDUA	L MODIFI	CATIC	N (Conti	nued)																			
MODELS OF SYSTEMS AFFECTED: <u>AN/BLQ-10 SSN ES Backfit Sys</u> MODIFIO								DIFICA	ATION TIT	ITLE: Information Assurance (IA)/Solaris																				
INSTALLATION I	INFORM	IOITAN			•																									
METHOD OF IME	PLEME	NTATIO	ON:		AITs																									
ADMINISTRATIVE LEADTIME: 6						3		PRODU	CTION	LEADTIN	_		1	8 Mo																
CONTRACT DAT	FY 2002: N/A						FY 2003									Y 200		N/A							2005:		_			
DELIVERY DATE	≣:	FY 2	002:	_	N/A			FY 2003	3:	N/A		FY 2004: N/A FY 2005: N/A																		
			(\$ in N	/lillions	)																									
Cost:		FY 2002 & Pric			F۱	_	FY 2003		FY 2004			FY 2005			FY 2006			FY 2007		'	FY 2			FY 2009		To Complete				Total
		Qty	\$	•	Qty	\$	Qty	\$	Qty	\$		Qty	\$	Q	ty	\$	(	Qty	\$		Qty	\$	Qt	y	\$	Qty	\$		Qty	\$
FY 2002 & PRIC	OR			0																									0	0.0
FY																													0	0.0
FY 2003 EQUIP	PMENT																												0	0.0
FY 2004 EQUIP	PMENT																												0	0.0
FY 2005 EQUIP	PMENT																												0	0.0
FY 2006 EQUIP	PMENT																				6		0.3						6	0.3
FY 2007 EQUIP	PMENT																												0	0.0
FY 2008 EQUIP	PMENT																									4		0.5	4	0.5
FY 2009 EQUIP	PMENT																									6		0.8	6	3.0
TO COMPLETE																													0	0.0
INSTALLA <u>TIO</u>	N SCH	DULE	:																									_		
FY	2002		<u>F</u>	Y 2003	<u>3</u>		FY	<u>2004</u>		FY 20	005		<u> </u>	FY 200	<u> </u>			FY 2	2007			FY 20	800		<u> </u>	Y 200	19		<u>TC</u>	
8	R Prior	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	4	1 2	3	4	1		TOTAL
In	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2 0	Ш	0 0	0	0		10	16
Out	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2 0	ᄔ	0 0	0	0		10	16
																									P-3/	Δ				
	P-3/ ITEM 45 PAGE 24 CLASSIFICATION:													ASSIFIE	D															

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CLASSIFICATION: UNCLASSIFIED February 2004
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P3A	INDIVIDUAL MODIFICAT			
MODELS OF SYSTEM AFFECTED:	AN/WLR-1H(V)7	TYPE MODIFICATION:	MODIFICATION TITLE:	AN/WLR-1H(V)7 MOD KITS ML027/ML028
		<u></u>		

## DESCRIPTION/JUSTIFICATION:

For FY-02 thru FY05 funding is for the procurement of modifications kits. These modification kits are required to replace obsolete and high maintenance components to extend the life cycle of the system until installation of AIEWS Increment 1 aboard CV/CVNs (N78) and to replace existing systems on WHEC Class Cutters (N76). Requirement includes the procurement of COTS/NDI equipment and the installation and support of the upgraded equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

		02 & Prior		FY_	_	2003		2004		2005		2006		<u> 2007</u>	_	2008		2009		<u>TC</u>		<u>OTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	10	5.4			3	1.4	3	1.1													16	7.9
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS										0.1		0.1		0.1		0.1		0.1				0.5
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER:																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	10	1.7	0	0.0	3	0.5	3	0.5													16	2.6
TOTAL PROCUREMENT	10	5.4	0	0.0	3	1.4	3	1.1	0	0.1	0	0.1	0	0.1	0	0.1	0	0.1	0	0	16	8.4
								ITEM	45	Р	AGE	25	i						CLAS	SSIFICATIO	N: UNCLA	SSIFIED

CLASSIFICATION: UNC	CLASS	IFIED																						Fe	bruary 2004		
P3A (Continued)																											
MODELS OF SYSTEMS	AFFE	CTED:	AN/WL	_R-1H(V)	7	MOI	DIFICA	TION TITLE	i:	<u>A</u>	N/WLR-	1H(V)7	Mod	l Kits I	ML02	7/ML028	3										
NSTALLATION INFORM					_																						
ADMINISTRATIVE LEAD			onths					LEADTIME	:	6 N	lonths																
CONTRACT DATES:	FY 2		Feb-0			FY 2003		Feb-03						FY 20			eb-04					FY 200			Feb-04		
DELIVERY DATE:	FY 2	002:	Aug-0	<u> 2</u>		FY 2003	:	Aug-03						FY 20	J04:	A	ug-04				ı	FY 200	)5:		Aug-0	)	
											(\$ in l	Millions	s)														
Cost:		002 & Prior				Y 2003		FY 2004		FY 2	005		Ý 200			FY 2007	7		/ 2008		Y 2009			nplete			Γotal
	Qty	\$	С	Qty	Qty	\$	Qty	\$	Q	ty	\$	Qty	\$	3	Qty	\$		Qty	\$	Qty	\$	(	Qty		\$	Qty	\$
FY 2002 & PRIOR	10	1.	7																							10	1.7
FY																										0	0.0
FY 2003 EQUIPMENT					3	0.5	5																			3	0.5
FY 2004 EQUIPMENT							3	(	0.5																	3	0.5
FY 2005 EQUIPMENT																										0	0.0
FY 2006 EQUIPMENT																										0	0.0
FY 2007 EQUIPMENT																										0	0.0
FY 2008 EQUIPMENT																										0	0.0
FY 2009 EQUIPMENT																										0	0.0
TO COMPLETE																											
INSTALLATION SCH	EDULE					2004	1	F)/ 0005			<u> </u>	0000			<b>5</b> )/	.0007		1 [	E) ( 000)		11	<b>5</b> 1/ 00				[TO]	
FY 2002		FY 20				2004		FY 2005				2006				2007		Ш.	FY 2008		ll .	FY 20				<u>TC</u>	
& Prior	1	2 3		_ 1	2	3 4	<b>∤</b> 1			4 1	2	3	4	1	2	3	4	1	2 3		1			4			TOTAL
In 10	1	2 0	0	0	3	0 0	0	0	0 (	0   0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0		0	16
Out 10	1	1 1	0	0	0	2 1	0	0	0 (	) C	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0		0	16
							TEM	45		PAGE	26								CI	A S S I E		P-3A	ICI AS	SSIFIED			
							I I IVI	40		- AGE	20								UL	AOOIT		IV. UIV	IULAI	JUITIEL	,		

CLASSIFICATION: UNCLASSIFIED February 2004 P3A INDIVIDUAL MODIFICATION Remote Ahead Profiling Upgrade MODELS OF SYSTEM AFFECTED: AN/BQS-15 TYPE MODIFICATION: Shipalt MODIFICATION TITLE: ML025 ML025 DESCRIPTION/JUSTIFICATION: Provides enhanced display features for mine detection for SSN 688 Class Submarines. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2002 & Prior FY 2008 FY 2009 QTY \$ QTY QTY FINANCIAL PLAN (IN MILLIONS) RDT&E 0 0.0 **PROCUREMENT** INSTALLATION KITS 0 0.0 **INSTALLATION KITS - UNIT COST** INSTALLATION KITS NONRECURRING 0.0 **EQUIPMENT** 2.2 8 2.2 **EQUIPMENT NONRECURRING** 0.0 ENGINEERING CHANGE ORDERS 0.0 DATA 0.0 TRAINING EQUIPMENT 0 0.0 SUPPORT EQUIPMENT 0.0 OTHER: CCM 0 0.0 OTHER 0.0 OTHER 0.0 INTERIM CONTRACTOR SUPPORT 0.0 8 INSTALL COST 0.6 0.0 8 0.6

TOTAL PROCUREMENT

8

2.2

ITEM 45 PAGE 27 CLASSIFICATION: UNCLASSIFIED

2.2

CLASSIFICATION: UNCLASSIFIED February 2004 P3A (Continued) INDIVIDUAL MODIFICATION (Continued) MODELS OF SYSTEMS AFFECTED: AN/BQS-15 MODIFICATION TITLE: Remote Ahead Profiling Upgrade/ML025 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 5 Months CONTRACT DATES: FY 2002: N/A FY 2003: N/A FY 2004: N/A FY 2005: N/A DELIVERY DATE: FY 2002: N/A FY 2003: N/A FY 2004: N/A FY 2005: N/A (\$ in Millions) FY 2002 & Prior FY 2003 FY 2004 FY 2005 FY 2007 FY 2008 FY 2009 Cost: FY FY 2006 To Complete Total Qty Qty Qty \$ \$ Qty Qty Qty Qty Qty **FY 2002 & PRIOR** 0.6 0.6 0 0.0 FY 0 0.0 FY 2003 EQUIPMENT FY 2004 EQUIPMENT 0 0.0 0.0 FY 2005 EQUIPMENT 0 FY 2006 EQUIPMENT 0 0.0 FY 2007 EQUIPMENT 0 0.0 FY 2008 EQUIPMENT 0.0 FY 2009 EQUIPMENT 0.0 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC & Prior 3 2 3 3 4 2 3 2 3 2 3 3 **TOTAL** 0 In 8 0 8 Out 0 8 P-3A CLASSIFICATION: UNCLASSIFIED ITEM PAGE 28 45

CLASSIFICATION: UNCLASSIFIED																						February 2004
P3A		INDIVIDUA	L MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:		3QS-15		_	TYP	E MODI	FICAT	ION:	Shipa	ılt		•			MOE	IFICAT	ON T	ITLE:		ТОМ МАРІ	PING	
DESCRIPTION/JUSTIFICATION:	ML02	5																		ML025		
Provides ship capability to map littoral area	as.																					
DEVELOPMENT STATUS/MAJOR DEVEL		NIT MII ECT	ONE	C+																		
DEVELOPMENT STATUS/MAJOR DEVEL	OPIVIE	INI WILESI	ONE	3.																		
	FY 2 QTY	002 & Prior \$	QTY	<u>FY</u> ′ \$		<u>/ 2003</u> \$		<u>/ 2004</u> \$		<u>2005</u> \$		<u>2006</u> \$		<u>Y 2007</u> \$		<u>/ 2008</u> \$		<u>/ 2009</u> \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (INTAULIONO)	QIT	Φ	QII		QII	φ	QIT	<u> </u>	T QIT	<b></b>	QII	<b></b>	QII	<u>φ</u>	QIT	<u> </u>	QII	<b>.</b>	QII	<b>3</b>	QIT	Φ
FINANCIAL PLAN (IN MILLIONS)																						
20705																						0.0
RDT&E																					0	0.0
<u>PROCUREMENT</u>											1											
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING							-										-					0.0
EQUIPMENT	9	3.2			5	1.4															14	4.6
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																						0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	9	0.2			5	0.2														0.0	14	0.5
TOTAL PROCUREMENT	9	3.2	0	0.0	5	1.4														0	14	4.6

0 14 4.6
CLASSIFICATION: UNCLASSIFIED ITEM 45 PAGE

45

CLASSIFICATION: UNCLASSIFIED																						February 2004
РЗА		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:		QN-17 UP	GRAD	<u>E</u>	TYP	E MODI	FICATI	ON:	Shipa	ılt		_			MOD	IFICAT	ION TI	ITLE:	BQN	-17 UPGR	ADE	
DESCRIPTION/JUSTIFICATION:	ML02	5																		ML025		
This is a COTS Upgrade.																						
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	ENT MILES	TONE	S:								_										
	FY 20	002 & Prior		FY	F۱	Y 2003	FY	2004	FY	2005	F۱	<b>/</b> 2006	F`	Y 2007	F١	2008	F۱	Y 2009		<u>TC</u>	7	ΓΟΤΑL
	QTY		QTY		QTY		QTY	\$	QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	21	9.1																			21	9.1
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT	1	0.3																			1	0.3
SUPPORT EQUIPMENT	1	0.3																			1	0.3
OTHER: CCM	1	0.3																			1	0.3
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	11	0.4			10	0.2														0.0	21	0.6

TOTAL PROCUREMENT

24

10.0

CLASSIFICATION: UNCLASSIFIED February 2004 INDIVIDUAL MODIFICATION (Continued) P3A (Continued) MODELS OF SYSTEMS AFFECTED: <u>AN/BQN-17 UPGRADE</u> MODIFICATION TITLE: AN/BQN-17 UPGRADE/ML025 INSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AITs ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 5 Months CONTRACT DATES: FY 2002: Feb-02 FY 2003: Feb-03 FY 2004: N/A FY 2005: N/A DELIVERY DATE: FY 2002: Jul-02 FY 2003: Jul-03 FY 2004: N/A FY 2005: N/A (\$ in Millions) FY 2002 & Prior FY 2003 FY 2004 FY 2005 FY 2007 FY 2008 FY 2009 Cost: FY FY 2006 To Complete Total Qty Qty Qty \$ \$ Qty Qty Qty Qty Qty **FY 2002 & PRIOR** 10 11 0.4 0.2 21 0.6 0 0.0 FY 0 0.0 FY 2003 EQUIPMENT FY 2004 EQUIPMENT 0 0.0 0.0 FY 2005 EQUIPMENT 0 FY 2006 EQUIPMENT 0 0.0 FY 2007 EQUIPMENT 0 0.0 FY 2008 EQUIPMENT 0.0 FY 2009 EQUIPMENT 0 0.0 TO COMPLETE INSTALLATION SCHEDULE: FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TC & Prior 3 2 3 3 4 2 3 2 3 2 3 3 **TOTAL** 0 In 11 3 3 3 1 0 21 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Out 11 0 0 0 21 P-3A

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																						February 2004
P3A		INDIVIDUA	AL MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:		JNQ-9 IDAF	RS Rep	laceme	n TYP	E MODII	FICATI	ION:	Shipa	alt		-			MOD	DIFICAT	ION T	ITLE:		JNQ-9 IDAI	RS Replace	ment
DESCRIPTION/JUSTIFICATION:	ML02	.5																		ML025		
IDARS is a COTS Recorder. This change	will pro	ovide a com	imon r	ecorder	across	the ent	ire SSI	N 688 C	lass Su	ubmarine	S.											
DEVELOPMENT STATUS/MAJOR DEVEL	ОРМЕ	NT MILES	TONE	S:								_										
	FY 2 QTY	002 & Prior \$		<u>FY</u> \$	<u>F\</u> QTY	<u>/ 2003</u> \$	<u>FY</u> QTY	<u>2004</u>	<u>F\</u> QTY	<u>/ 2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u>	<u>F</u> QTY	Y 2007	<u>FY</u> QTY	<u>/ 2008</u> \$		<u>/ 2009</u>	QTY	TC \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)	QIII		Q I I		GII		QII	Ψ	QIII		Q I I	Ψ	Q I I	T T	Q I I	Ψ	QII	Ψ	QIII		QII	Ψ
RDT&E																					0	0.0
<u>PROCUREMENT</u>																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																					0	0.0
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGE ORDERS																						0.0
DATA																						0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER: CCM																					0	0.0
OTHER																						0.0
OTHER																						0.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST	39	1.0			6	0.1														0.0	45	1.1
TOTAL PROCUREMENT																				0	0	0.0

CLASSIFICATIO		CLASS	SIFIED																											February 2004
P3A (Continued)	)					INDIV	IDUA	L MODIFI	CATIO	N (Conti	nued)																			
MODELS OF SY	YSTEMS	AFFE		AN/U		ARS		MO	DIFICA	ATION TI	TLE:		AN/U	NQ-9	IDAF	RS REF	PLAC	EMEN	IT							_				
INSTALLATION	INFORM	MATIO																												
METHOD OF IM					AITs		_																							
ADMINISTRATI					1 Month			PRODU			ME:	_			2 Mo		<del></del> .													
CONTRACT DA DELIVERY DAT		FY 2		-	N/A N/A			FY 2003 FY 2003		N/A N/A	_						Y 20 Y 20		N/A N/A							2005: 2005:				
DELIVERT DAT	⊏.	F1 2	2002.		IN/A			F1 2003	٠.	N/A	_					-	1 20	04.	IN/A						г	2005.	IN/A			
Conti			(\$ in M		FY	,		Y 2003	1	FY 2004			Y 2005			./ 2000			Y 2007			′ 2008		_	V 2000	IT- 0				Tatal
Cost:		Qty	002 & F		Qty	\$	Qty		Qtv	F Y 2004		Qty	\$ 2000		Qty	Y 2006 \$		Qty	\$ 2007 \$		Qty	\$		r Qty	Y 2009 \$	Qty	omplete \$		Qty	Total \$
		Qty	<b>-</b>		Qty	Ψ.	Qty	Ψ	Qty	Ψ		Qty	Ψ		Qty	Ψ		Qty	Ψ	+	Qty	Ψ		αιy	Ψ	Qty	•		Qty	Ψ
FY 2002 & PRI	IOR	39		1			6	0.1	1																				45	1.1
FY																													0	0.0
FY 2003 EQUII	PMENT																												0	0.0
FY 2004 EQUI	PMENT																												0	0.0
FY 2005 EQUII	PMENT																												0	0.0
FY 2006 EQUI	PMENT																												0	0.0
FY 2007 EQUI	PMENT																												0	0.0
FY 2008 EQUI	PMENT																												0	0.0
FY 2009 EQUI	PMENT																												0	0.0
TO COMPLETI	E																												$\perp \perp$	
INSTALLATIO	ON SCH	<u>EDULI</u>	E:																									i	r	
	Y 2002			2003	_			<u>2004</u>		FY 2				FY 20				FY 2				FY 2			-	FY 200	<u>)9</u>		<u>TC</u>	
<u> </u>	& Prior	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1		3 4	_	_1_	2	3	4	1 2		4		┷	TOTAL
In	39	3	3	0	0	0		0 0	0	0	0	0	0	0	0		0	-	0 0		0	0	0	0	0 0	-	0		0	45
Out	39	3	3	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 (	0 0		0	0	0	0	0 0	0	0		0	45
																									P-3	Α				
L								ı	TEM	45		PA	GE :	34									CLAS	SIFI			ASSIFIED			

			BUI	DGET ITEM	<b>JUSTIFICA</b>	TION SHEET	-				DATE:	
					P-40						FEBRUA	RY 2004
APPROPRIATION/BUDG	SET ACTIVITY				P-1 ITEM NO	MENCLATURE						
Other Procurement	, Navy											
<b>BA-2:</b> Communicat	ions and El	ectroni	c Eq				NAVY TAC	TICAL DATA	SYSTEM (N	ITDS)/26050	00	
Program Element for Coo	de B Items:				Other Related	Program Elem	ents					
	FY 2002 and Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2006	FY 2007	FY 2009	TBD	To Complete	Total
QUANTITY	n/a	^	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	Program \$0.0
			*		·		, , ,	1	·	·		·
COST (\$M)	\$58.4		\$7.5	\$12.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$77.9
Initial Spares (\$M)	\$0.8		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.8

## PROGRAM OVERVIEW:

The Navy Tactical Data System Program provides for the Advanced Combat Direction System (ACDS) as a general purpose Combat Direction System (CDS) in major warships, permitting rapid integration of ship sensor information, analysis and display of tactical information, and designation of weapon systems to force threats. ACDS consists of three major subsystems, namely, the Data Processing, Data Display and Data Link Subsystems. Data Processing and Data Display Subsystems are assigned to the Program Executive Office, Integrated Warfare Systems and the Data Links are assigned to the Space and Naval Warfare Systems Command. The ACDS is an upgrade to the NTDS Data Processing and Data Display subsystems and associated computer programs and documentation.

### FY03 Funds are for:

(LU010) AN/UYQ-70 fleet peripheral emulation fielding for \$4.2 M

(LU011) AN/UYQ-70 consoles at the shore base Integrated PT Hueneme Detachment, NSWC Center (formerly ICSTF) for \$3.3M.

## FY04 Funds are for:

(LU059) Fleet Peripheral Equipment Replacement for \$3.4 M

(LU061) Shore Site Emulation Equipment - Funding is for the procurement of AN/UYQ-70(V) display emulator systems/equipment and for upgrade of existing display emulator systems/equipment for shore sites for \$7.6 M \*\*\*These are Congressional Plus-up Funds \*\*\*

\* \$991K of the FY04 funds (Congressional Add) are applied to the Aegis Combat System Production project unit (LUXXX).

DD Form 2454, JUN 86

P-1 SHOPPING LIST ITEM NO. 46 PAGE NO. 1 **CLASSIFICATION:** 

**UNCLASSIFIED** 

<sup>\*\*\*</sup>These are Congressional Plus-up Funds \*\*\*

**UNCLASSIFIED** CLASSIFICATION:

	WEAPONS SYSTEM O	OST A	NALYSIS			Weapon Syst	em							DATE:	
ΔPPRΩP	P-5 PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	MENCLATURE	/SLIBHEAD					SUBHEAD:	ARY 2004
	rocurement, Navy					ID Oodc			A SYSTEM (I	NTDS)/2605	00			OOBITEAD.	
	Communications and Electronic Eq								•	,					A2LU
			TOTAL CO	ST IN THOUSA	NDS OF DOLL	ARS	•								
COST	ELEMENT OF COST	ID Code						FY 2003			FY 2004			FY 2005	
0022				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
LU010	AN/UYQ-70 Fleet Peripheral Emulation Equipment								4,203						
LU011	AN/UYQ-70 Shore Site Equipment								3,336						
LU061	Shore Site Emulation Equipment LHA ITAWDS Upgrade	A										7,595			
LU059	Fleet Peripheral Equipment Replacement AN/UYQ-70	А										3,375			
LUXXX	AEGIS Combat System Production											991			
	1	1							7,539			11,961		+	
DD FORM	2446, JUN 86		I	I .	1	P-1 SHOPPIN	-	1	1,559	1	1	CLASSIFICATION	DN:		
					ITEM NO. 46			PAGE NO. 2							

CLASSIFICATION:

# **UNCLASSIFIED**

IISTORY AND PLA	NNING EXHIBIT (P-5	<b>SA</b> ]		Weapon System		A. DATE	FEBRU <i>A</i>	ARY 2004
Y							SUBHEAD	
l Electronic Eq			NAVY TACTI	<u>CAL DATA SYSTEM (N</u>	TDS)/260	50(		A2LU
JANTITY UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	AVAILABLE NOW	DATE REVISIONS AVAILABLE
4,203.00	NAVSEA	(R1)	FFP	Lockheed Martin (R1) EAGAN, MN	01/03	08/03	NO	
3,336.00	NAVSEA	(R1)	FFP	Lockheed Martin EAGAN, MN NAVSEA/DN (R2)	02/03	10/03	N0	
3,375.00	NAVSEA	(R1)	FFP	Lockheed Martin (R1) Bethesda, MD/	01/03	08/03	NO	
7,595.00	NAVSEA	(R1)	FFP	DRS Technoligics Parsippany, NJ/ NAVSEA/DN (R2) DAM NECK, VA/ NSWC/IH (R3) INDIAN HEAD, MD	02/03	10/03	NO	
911.00								
	PELECTRONIC EQ  JANTITY UNIT COST (000)  4,203.00  3,336.00  3,375.00	Electronic Eq	LOCATION   COST   COS	C. P-1 ITEM NOM   NAVY TACT	C. P-1 ITEM NOMENCLATURE	C. P-1   ITEM NOMENCLATURE	C. P-1   ITEM NOMENCLATURE	C. P-1 ITEM NOMENCLATURE   SUBHEAD

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 46 PAGE NO. 3

<sup>(1)</sup> Contracts in place; procurement will be accomplished by placing delivery order and task instructions on contract.

<sup>(2)</sup> NAVSEA Dam Neck will accomplish the equipment integration, testing, installation and ILS.

<sup>(3)</sup> NSWC IH will handle procurement of mod kits, contract administration, acceptance testing, kit installation, system integration testing and ECPs.

			<b>BUDGET ITE</b>	EM JUSTIFIC	ATION SHEE	T			DATE:		
				P-40						February 2004	
APPROPRIATION/B	SUDGET ACTIVIT	Υ					P-1 ITEM NOM	IENCLATURE	•	_	
OTHER PROCUI	REMENT, NA	VY/BA-2	2				Cooperative	<b>Engagemer</b>	nt Capability (CEC	C)/260600	
Program Element for 0603755N (FY 19		558N (F	Y 1998-07)				Other Related F	Program Elemer	ts		
	2002 and Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY	23		6	4	3	3	3	6	4	2	54
COST (In Millions)	\$327.1		\$70.1	\$66.6	\$57.5	\$46.7	\$46.5	\$62.0	\$49.8	\$57.3	\$783.6
SPARES COST (In Millions)	\$13.3		\$2.9	\$2.1	\$4.6	\$3.0	\$11.0	\$5.2	\$0.7	Cont.	Cont.

- A. (U) Mission Description and Budget Item Justification: Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CUs in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC is highly resistant to jamming and provides accurate gridlocking between CUs. Each CU independently employs high capacity, parallel processing and advanced algorithms to combine all distributed sensor data into a fire control quality track picture which is the same for all CUs. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. CEC will significantly improve our Battle Force defense in depth, including both local area and ship defense capabilities against current and future AAW threats. Moreover, CEC will provide critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment.
- (U) CEC consists of the Data Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownship sensor and engagement data, is a high capacity, jam resistant, directive system providing a precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in near real-time. This data is passed to the ship's combat system as high quality data, which the ship can use to cue its onboard sensors to engage targets without actually tracking them.
- CEC is planned for shipboard installations at various Naval and commercial shippards aboard CG, DDG, CV/CVN and LHD ship classes and at land based test sites during scheduled ship availability periods.
- CEC was approved for entry into Engineering and Manufacturing Development (E&MD) in May 1995. Eleven (11) Advanced Development Models (ADM) and Engineering Development Models (EDM), and eleven (11) Pre-Production Units (PPU) were purchased under the development contract.

NOTE: No ERF,D funds.

-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYSTEM C P-5	OST ANA	LYSIS			Weapon Sy	stem						DATE: Februa	ary 2004
APPROPE	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD	)				, 2001
OTHER	PROCUREMENT, NAVY/BA-2					В	Cooper	ative Enga	agement (	Capability	/ (CEC)/A2	UC BLI:	260600	
			TOTAL COST	Γ IN THOUS	ANDS OF DOI	LLARS								
COST CODE	ELEMENT OF COST	ID Code	2002 and Prior		FY 2003			FY 2004			FY 2005			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
UC001	Coop. Eng. Transmitting/Proc. Sys. (CETPS) (AN/USG-2)	В	201,506	6	8,300	49,803	4	9,355	37,421	3	8,152	24,455		
UC002	AN/UYQ-70 Display	А	21,494											
UC830	Production Engr. Support	А	31,205			6,106			6,200			6,299		
UC004	ECP/Kit Procurement	А	23,267			8,313			9,624			13,981		
UC005	Non-recurring Depot Cost		4,500											
UC006	VISTA Training		700											
UC007	CETPS (AN/USG-3) (Airborne)	В	0											
UC008	Supply Support		6,094			0			0			0		
UC51N UC61N	INSTALLATION: FMP Non-FMP		24,049 14,291			5,846			13,352			12,796		
			327,106			70,068			66,597			57,531		

MENT HISTO	RY AND F	LANNING EXHIBIT	「(P-5A)		Weapon System		a. date Fek	ruary 20	04
T ACTIVITY				C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
EMENT, N	AVY/BA	-2		Cooperati	ve Engagement Capab	ility (CEC)/B	LI: 260600	A	2UC
QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	AVAILABLE NOW	DATE REVISIONS AVAILABLE
6	8,300	Arlington, VA	Dec-02	FFP	Raytheon Sys. Co., St. Petersburg, FL	May-03	Nov-04	Yes	N/A
4	9,355	Arlington, VA	Jul-03	FFP	Raytheon Sys. Co., St. Petersburg, FL	Oct-03	Apr-05	Yes	N/A
3	8,152	Arlington, VA	Jul-04	FFP	Raytheon Sys. Co., St. Petersburg, FL	Oct-04	Apr-06	Yes	N/A
1	EMENT, N. QUANTITY  6	### RENT, NAVY/BA   QUANTITY	FACTIVITY  EMENT, NAVY/BA-2  QUANTITY UNIT COST OF PCO  6 8,300 Arlington, VA  4 9,355 Arlington, VA	G 8,300 Arlington, VA Dec-02  4 9,355 Arlington, VA Jul-03	EMENT, NAVY/BA-2  QUANTITY  QUANTITY  OF PCO  COOperation OF PCO  REP ISSUE DATE  CONTRACT METHOD & TYPE  A 9,355 Arlington, VA Dec-02  FFP  4 9,355 Arlington, VA Jul-03  FFP	C. P-1 ITEM NOMENCLATURE  EMENT, NAVY/BA-2  QUANTITY  UNIT COST (000)  6 8,300 Arlington, VA  Dec-02  FFP Raytheon Sys. Co., St. Petersburg, FL  4 9,355 Arlington, VA  Jul-03  FFP Raytheon Sys. Co., St. Petersburg, FL  3 8,152 Arlington, VA  Jul-04  FFP Raytheon Sys. Co., St. Petersburg, FL	C. P-1 ITEM NOMENCLATURE    Cooperative Engagement Capability (CEC)/B	FEMENT, NAVY/BA-2  Cooperative Engagement Capability (CEC)/BLI: 260600  QUANTITY UNIT COST OF PCO PCO PATE STUDY OF PCO PCO PCO PT PCO PCO PT PCO PCO PT PCO PT PCO PCO PT PCO PCO PT PCO	February 20  C. P-1 ITEM NOMENCLATURE  Cooperative Engagement Capability (CEC)/BLI: 260600  A2  QUANTITY UNIT COST OF PCO REPLIED ATTERNOOF PCO REPLIED AT

DD Form 2446-1, JUL 87

CLASSIFICATION: UNCLASSIFIED

P3A INDIVIDUAL MODIFICATION

INDIVIDUAL MODIFICATION

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED:		AN/USG-	-2		TYP	E MODIF	FICAT	ION·	BG	AAW In	nprov	ement			МОГ	DIFICATION	ON TI	TI F·			CETPS	
DESCRIPTION/JUSTIFICATION:		7 0 0 0		=								<u> </u>	_		02							
Battle Group Anti-Air Warfare (AAW	) Imn	rovement																				
Battle Group Artti-All Warrare (AAW	) IIIIP	ioveilleill																				
DEVELOPMENT STATUS/MAJOR DEVELO	PMEN	IT MILESTO	ONES:		M/S	II (Ma	v 95)	M/S II	I (2Q	FY 200	2) T	DP AV	AIL (	Sep 98)								
	E) ( 0								-		-						_,	,			T0741	
	QTY	002 & Prion! \$	QTY	<b>'</b> \$	QTY	<u>/ 2003</u> \$	QTY	<u>Y 2004</u> ′\$	<u>FY</u> QTY	<u>′ 2005</u> \$	QTY	<u>/ 2006</u> \$	<u>+</u> QTY	<u>Y 2007</u> ′\$	<u>F1</u>	<u>/ 2008</u> \$	<u>F Y</u>	<u>/ 2009</u>	QTY	<u>TC</u> \$	<u>TOTAL</u> QTY	\$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E	22	1691.4				106.0		86.7		103.5		114.0		67.3		63.6		63.6		Cont.	22	Cont.
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT (AN/USG-2)	17	148.6			6	49.8	4	37.4	3	24.5	3	18.5	3	20.3	6	33.9	4	25.1	2	13.2	48	371.3
EQUIPMENT (AN/USG-3)																						0.0
ENGINEERING CHANGE ORDERS																						0.0
SUPPLY SUPPORT		6.1																				6.1
TRAINING EQUIPMENT (AN/USG-2)	6	52.9																			6	52.9
SUPPORT EQ. (VISTA Trng)		0.7																				0.7
OTHER (N/R Depot Standup)		4.5																				4.5
OTHER (ECP/Kit Procurement)		23.3				8.3		9.6		13.9		13.6		14.0		13.9		9.2		8.6		114.4
OTHER (Production Engr. Support)		31.2				6.1		6.2		6.3		6.4		6.5		6.6		6.8		6.9		83.0
INTERIM CONTRACTOR SUPPORT																						0.0
INSTALL COST *		29.8				5.9		13.4		12.8		8.2		5.7		7.6		8.7		28.6		120.7
TOTAL PROCUREMENT	23	297 1	0	0.0	6	70 1	4	66 6	3	57.5	3	46.7	3	46.5	6	62.0	4	49.8	2	57.3	54	753 6

ITEM NO. 047 PAGE NO. 04

<sup>\*</sup> Includes FMP and Non-FMP P-1 SHOPPING LIST CLASSIFICATION: **UNCLASSIFIED** 

P3A (Co	ontinued)					INDIV	/IDUA	AL MC	DIFIC	ATIO	N (Con	tinued	)																				
MODELS	S OF SYSTEMS AF	FECTE	D:	AN/L	JSG	-2			_ ^	IODII	FICATIO	TIT NC	LE:			CETPS	S																
METHO	LATION INFORMAT D OF IMPLEMENTA	TION:		40.11								4 D.T.				40.14																	
	STRATIVE LEADTIN	/IE:	FY 200	12 M					FY 20		ION LE					18 Mc	ontns	i	FY 20	0.4		0-4-1	20				FY 20	05	0-4	. h	004		
	ACT DATES: RY DATE:		FY 200	_		2002 embe		<del>-</del>	FY 20			May 20 Noven		2004					FY 20			Octok April		03			FY 20			ber 2 I 2006			
DELIVE	NI DAIL.		11200	<u> </u>	100	enibe	1 200	<u> </u>	1120	.03	-	NOVE	IIDEI 2		- M:II:	\			1120	704	-	April	2003				1 1 20	03	Дрі	1 2000			
	Cost:	Dri	ior Years						Y 2003		EV	2004			n Millio FY 200		ı -	FY 20	206		Y 200	17		Y 200	o 1		Y 2009	. 1	To C	omple	to		otal
	COSI.	Qty	\$		Qty		5	Qty	\$		Qty	\$		Qty	1 200		Qty	F 1 Z(	\$	Qty		5 5	Qty	\$		Qty	\$		Qty	5 \$		Qty	\$
DDIOD	YEARS	12			χιy			Q Ly	·	4.5	Qty	Ψ	0.0	Qty		0.9	Qty		<u> </u>		•	,	Qty	*		Qty	Ψ_		Qty	Ψ	+	17	36.2
		12		+				4		4.5	_					0.9	- 1		1.4												+		
	2 EQUIPMENT		0.4					1		1.0	5		6.3																		+	6	7.7
FY 200	3 EQUIPMENT									0.3	2		5.3	4		6.9															_	6	12.5
FY 200	4 EQUIPMENT									0.1			1.8	2		3.0	2		3.1													4	8.0
FY 200	5 EQUIPMENT															2.0	1		2.6	2		3.1										3	7.7
FY 200	6 EQUIPMENT																		1.1	1		2.1	2		4.2							3	7.4
FY 200	7 EQUIPMENT																					0.5			2.5	3		5.4				3	8.4
FY 200	8 EQUIPMENT																								0.9	2		3.3	4	1	4.0	6	18.2
FY 200	9 EQUIPMENT																												4	1	2.0	4	12.0
то со	MPLETE																												2		2.6	2	2.6
INST	ALLATION SCHEDU	JLE:																													_		
	FY 2002		FY 200	<u>)3</u>			FY 2	004			FY 20	<u>005</u>			FY:	<u> 2006</u>			FY 2	007			FY 2	2008			<u> </u>	Y 20	009			<u>TC</u>	TOTAL
	& Prior	1	2	3	4	1	2	_3_	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		1	2	3	4	L		
In	12	1	1	2	1	2	2	1	2	1	2	1	2	0	2	1	1	0	1	1	1	1	0	0	1		1	1	2	1		10	54
Out	12	1	1	2	1	2	2	1	2	1	2	1	2	0	2	1	1	0	1	1	1	1	0	0	1		1	1	2	1	L	10	54
																												<b>-</b> 3Δ					

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM	I JUSTIFIC	ATION SHI	EET				DATE		Februar	y 2004
APPROPRIATION/BUDGET ACTIVOP,N - BA2 COMMUNICATIONS 8			P-1 ITEM NON Naval Comman	_	ystems (NCCS)	2608	1		SUBHEAD 52JG	
	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To COMP	TOTAL
QUANTITY										
COST (in millions)	\$206.7	\$58.4	\$51.8	\$63.4	\$106.7	\$63.7	\$85.9	\$105.3	CONT	CONT

### PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

# GCCS-M (Overall Description):

Global Command and Control System-Maritime (GCCS-M) is the Navy's fielded Command and Control system, a key component of the Copernicus forward C4ISR strategy and is the Navy's tactical implementation of the Joint Services Global Command and Control System (GCCS). GCCS-M has aggressively pursued an Evolutionary Acquisition strategy in rapidly developing and fielding new Command, Control, Computers and Intelligence (C3I) capabilities for Naval users. GCCS-M includes migration to DISA's Defense Information Infrastructure (DII) Common Operating Environment (COE), incorporation of Fleet requirements for merging tactical and non-tactical networks, support for the IT-21 / Network Centric Warfare initiative and utilization of PC, WEB and other COTS Information Technology. System upgrades are required to support the evolutionary nature of the GCCS-M software releases in order to meet Fleet / mission requirements. GCCS-M was designated an ACAT 1AC program on 30 March 2001.

JG010: GCCS-M Afloat supports Next Generation Networks (NGN) while providing Tactical C3I systems tailored to meet platform missions and functions to ensure joint interoperability among Numbered Fleet Commanders (NFC), Commander, Joint Task Force (CJTF), Joint Force Air Component Commander (JFACC), Officer in Tactical Command (OTC), Composite Warfare Commander (CWC), Subordinate Warfare Commanders (SWC), Commander Amphibious Task Forces (CATF), Commander, Landing Forces (CLF) and Commanding Officer/Tactical Action Officer (CO/TAO). GCCS-M Afloat provides both General Service (GENSER) and Sensitive Compartmented Information (SCI) source information management systems which receive, process, correlate, fuse, assess, and display the readiness and disposition of own, neutral, and potentially hostile forces together with Electronic Warfare (EW) resource and environmental information. GCCS-M Afloat provides tactical commanders with an accurate, reliable and survivable Common Operational Picture (COP) which includes complete all-source information management, display and dissemination, rapid access to organic/theater/national intelligence and databases, and multi-source data fusion and imagery exploitation.

GCCS-M Afloat provides C3I capability to 29 Force Level Ships (i.e., CV/CVN, LCC, LHA, LHD, MCS and AGF), 224 Unit Level Ships (i.e., AO/AOE/AE/ARS, CG, DD/DDG, FFG, MHC/MCM, LPD/LSD/LST), 69 Submarines (i.e., SSN/SSBN), the Software Support Activity (SSA), and the In-Service Engineering Activity (ISEA). Force Level ships receive a GCCS-M GENSER system (UNIX and NT) and a GCCS-M SCI system (UNIX and NT). Unit Level ships receive a GCCS-M GENSER system (UNIX and NT). Submarines receive a GCCS-M GENSER system (UNIX and NT). The SSA and ISEA receive a GCCS-M GENSER system (UNIX and NT).

<u>JG015:</u> Theater Battle Management Core System (TBMCS) provides interoperability with Joint and Combined forces for Joint strike planning and execution. TBMCS is required to plan and publish Air Tasking Orders in support of a Joint Forces Air Component Commander (JFACC) assigned by the theater CINC. It is fielded on all Force Level Ships (CV/CVN, LHA/LHD, LCC, AGF platforms) and selected shore sites to permit air wing interaction with theater planners for all airborne missions.

<u>JG016:</u> Shipboard Video Distribution System (SVDS) provides a system of briefing and display capabilities. SVDS is fielded on all force level platforms. It is used to provide commanders and staff watch standers with constantly updated situational awareness through display of the COP, and other C4I information sources. It consists of video switches, video cameras, and large screen display surfaces connected with audio announcing systems in all tactical watch standing areas.

<u>JG020:</u> GCCS-M Ashore supports NGN while providing evolutionary systems and ancillary equipment upgrades to support CNO, Fleet Commanders in Chief, Unified Commanders, Type Commanders, Force Anti-Submarine Warfare (ASW) Commanders, and Submarine Operating Authorities worldwide. GCCS-M Ashore provides systems that receive, process, display, maintain and/or assess unit characteristics, employment scheduling, material condition, combat readiness, war fighting capabilities, and positional information of own, allied, and hostile forces. GCCS-M Ashore provides the tools necessary for Fleet and Shore based commanders to execute plans, transmit tasking, and provide tactical information to subordinate forces.

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Naval Command and Control Systems (NCCS) 2608		52JG

<u>JG030</u>: **Trusted Information Systems** is a combination of the Ocean Surveillance Information System (OSIS) Evolutionary Development (OED) system, and the Radiant Mercury (RM) system incorporating multi-level security (MLS) web technologies. TIS provides the core on-line, automated, near-real time, multi-level secure, information analysis, dissemination, and receipt capabilities that enable Unified Commanders-in-Chief and Joint Task Force Commanders afloat and ashore to disseminate and receive critical operational and intelligence information with own forces and Coalition/Allied forces via tactical and record communications circuits. TIS provides evolutionary systems and ancillary equipment upgrades to support three Joint Intelligence Centers (JIC) and the Office of Naval Intelligence (ONI). OED provides near-real-time all-source fusion, correlation and analysis tools for the analysis of multi-source intelligence to produce comprehensive tactical threat warnings, decision making support, and support of Over-the-Horizon-Targeting. Radiant Mercury is a tool for the automated sanitizing, downgrading, and transliteration of formatted message traffic. A linchpin of network-centric warfare aboard afloat platforms, Radiant Mercury helps ensure critical Indications and Warning intelligence is provided quickly to operational decision-makers.

<u>JG040</u>: GCCS (Joint) is an operational multi-service/agency C4l program encompassing both strategic and tactical C4l functions. GCCS (Joint) supports the National Command Authority and the CINCs by providing C4l data processing capabilities, including status of forces and support requirements for use in national security decision making, force preparation and operational planning execution.

<u>JG050</u>: Tactical/Mobile provides evolutionary systems and ancillary equipment upgrades to support the Unified, Fleet, and Navy Component Commanders, the Maritime Sector, Theater, and the Naval Liaison Element Commanders (Ashore) with the capability to plan, direct and control the tactical operations of Joint and Naval Expeditionary Forces and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (i.e. EO, IR, ISAR, etc.) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, and special operations. Each TAC/Mobile system has a command & control component and a communications & mobility component. The Command and Control services are provided by GCCS-M and include core GCCS-M capabilities, analysis and correlation of diverse sensor information; data management support, command decision aids; access to rapid data communication, mission planning and evaluation; dissemination of ocean surveillance positional data and threat alerts to operational users ashore and afloat. The communications and mobility component provides communications interconnectivity between various joint and naval commands, as well as the components necessary to make the systems mobile and self-sustaining in operational environments. The Tactical/Mobile System includes the fixed site Tactical Support Centers (TSCs) and the Mobile Operations Control Centers (MOCCs) which is a mobile version of the TSC for contingency operations; and the scaleable and highly portable Joint Mobile Ashore Support Terminal (JMAST), which has merged the capabilities of the previous MAST and MICFACs. A Maritime Patrol and Reconnaissance (MPR) Operations Center (MOC) is being activated in Bahrain during FY05. This facility will provide a limited C4I and ground support capability for deployed MPR aircraft within that AOR.

### PROCUREMENT DATA:

The FY 04 Budget Procures: 1. GCCS-M Ashore Command Center equipment; 2. TIS upgrades; 3. GCCS (JOINT) Workstations, Servers, LAN hardware and software, communications equipment; 4. Tactical/Mobile GCCS-M and communications & mobility upgrade equipment; 5. GCCS-M Afloat C3I systems; and installation of equipment, and production engineering support.

The FY 05 Budget Procures: 1. GCCS-M Ashore Command Center equipment; 2. TIS upgrades; 3. GCCS (JOINT) Workstations, Servers, LAN hardware and software, communications equipment; 4. Tactical/Mobile GCCS-M and communications & mobility upgrade equipment; 5. GCCS-M Afloat C3I systems; and installation of equipment, and production engineering support.

	COST ANALYSIS								DATE		February 200	04
	RIATION ACTIVITY -2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT		P-1 ITEM N		LATURE ontrol Systems	(NCCS) 2608				SUBHEA 52JG	AD.	
OI ,N - DA	-2 COMMONICATIONS AND ELECTRONIC EQUIT MENT		Navai Commi	and and C	Ontioi Systems	TOTAL COS	T IN TH	OUSANDS O	F DOLLARS	323G		
			PYs		FY 2003			FY 2004			FY 2005	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
JG010	GCCS-M Afloat GCCS-M Afloat Unit Level GCCS-M Aloat Force Level GCCS-M Afloat Shore Site	A A A	<b>55,290</b> 28,778 23,639 2,873	48 8	119.92 832.00	<b>12,412</b> 5,756 6,656	17 4	360.29 1,634.50	<b>12,663</b> 6,125 6,538	10 8	352.00 1,167.75	<b>12,862</b> 3,520 9,342
JG015	Theater Battle Management Core System (TBMCS) TBMCS Afloat Force Level TBMCS Ashore Site	A A	<b>6,825</b> 5,648 1,177	14 4	187.64 210.50	<b>3,469</b> 2,627 842	10 2	361.30 248.00	<b>4,109</b> 3,613 496	10 2	374.80 257.50	<b>4,263</b> 3,748 515
JG016	Shipboard Video Distribution System (SVDS) Shipboard Video Distribution System	А	<b>7,977</b> 7,977	1	1,005.00	<b>1,005</b> 1,005	2	915.50	<b>1,831</b> 1,831	2	960.00	<b>1,920</b> 1,920
JG020	GCCS-M Ashore GCCS-M Ashore	A	<b>19,056</b> 19,056	19	466.68	<b>8,867</b> 8,867	11	625.27	<b>6,878</b> 6,878	24	527.17	<b>12,652</b> 12,652
JG030	Trusted Information Systems (TIS) TIS - OED TIS - Radiant Mercury (RM) Afloat	A A	<b>4,180</b> 4,180	3 2	287.00 300.00	<b>1,461</b> 861 600	4	363.50 -	<b>1,454</b> 1,454 -	4 1	395.25 310.00	<b>1,89</b> 1 1,58 <sup>2</sup> 310
JG040	GCCS (Joint) Support Equip GCCS (Joint) Support Equipment	А	<b>6,848</b> 6,848	20	71.20	<b>1,424</b> 1,424	20	78.05	<b>1,561</b> 1,561	20	124.55	<b>2,49</b> 1 2,491
JG050	Tactical Mobile Upgrade Equipment TSC JMAST GCCS-M Upgrades Communications & Mobility Equipment Upgrades	A A A	25,050 7,966 17,084 - -	4 9	343.50 1,075.89	11,057 1,374 9,683	3 15	410.33 551.07	9,497 1,231 8,266	11 14	448.00 316.14	<b>9,354</b> 4,928 4,426
JG555	Production Support (GCCS-M Afloat)		2,089									

Remarks: 1. GCCS-M quantities reflect number of ships or shore sites.

<sup>2 .</sup> Unit Costs are based on the average cost of all the number of ships or shore sites installed. Variances are due to the diverse types of ship or shore site requirements.

<sup>3.</sup> Radiant Mercury is procured under a "turn key" contract, therefore, installation funds are not shown separately.

<sup>4.</sup> Beginning in FY04, mobile systems in the Tac/Mobile program are procured "turn key".

<sup>5.</sup> All "Prior Years" columns include funding for FY99-FY01, which is consistent with all ACAT 1 documentation.

	COST ANALYSIS								DATE		February 2	004
	TION ACTIVITY COMMUNICATIONS AND ELECTRONIC EQUIPMENT		P-1 ITEM N			ns (NCCS) 2608	}			SUBHEA 52JG	AD	
					7	TOTAL COST	IN THO		OF DOLLARS			
		l	PYs		FY 2003			FY 20			FY 200	
COST	ELEMENT OF COST	ID CODE	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT	TOTAL COST	QTY	UNIT	TOTAL COST
0052	ELEMENT OF GOOT	GGBL		Q		3001	Q	0001		Q	3331	3331
JG777	INSTALLATION		79,428			18,656			13,801			17,930
	Non FMP		14,923			6,234			2,494			4,395
	GCCS-M Afloat TBMCS Ashore		2,135 220			124			- 86			89
	GCCS-M Ashore		3,720			4,199			1,021			2,274
	TIS - OED		205			78			75			75
	GCCS (Joint) Support Equipment		1,961			419			412			412
	Tactical Mobile (TSC & JMAST)		6,684			-			-			-
	Tactical Mobile (GCCS-M) Tactical Mobile Communications & Mobility		<del>-</del> -			49 1,365			526 374			757 788
	FMP GCCS-M Afloat DSA TBMCS Afloat DSA SVDS DSA		<b>64,504</b> 52,322 2,568 2,163 329 6,776 346			12,422 8,255 1,358 1,212 655 853 89			11,307 4,885 690 3,360 450 1,756 166			<b>13,535</b> 6,433 1,242 3,490 464 1,730 176
	TOTAL		206,743			58,351			51,794			63,363

# UNCLASSIFIED CLASSIFICATION

										A. DATE		
PRO	CUREMENT HISTORY AND PLANNING										Februa	ary 2004
B. AP	PROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NO	MENCLATUR	ΙE				SUBHEAD	
OP,N - E	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT				Naval Command a		stems (NCCS				52JG	
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
JG010	GCCS-M Afloat Unit Level	04 05	SSC Charleston/San Diego/GSA SSC Charleston/San Diego/GSA	WX/IP WX/IP	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	17 10	360 352	YES YES	N/A N/A
JG010	GCCS-M Afloat Force Level	04 05	SSC Charleston/San Diego/GSA SSC Charleston/San Diego/GSA	WX/IP WX/IP	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	4 8	1,635 1,168	YES YES	N/A N/A
JG015	TBMCS Afloat Force Level	04 05	SSC Charleston/San Diego/GSA SSC Charleston/San Diego/GSA	WX/IP WX/IP	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	10 10	361 375	YES YES	N/A N/A
JG015	TBMCS Ashore	04 05	SSC Charleston/San Diego/GSA SSC Charleston/San Diego/GSA	WX/IP WX/IP	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	2 2	248 258	YES YES	N/A N/A
JG016	Shipboard Video Distribution System	04 05	SSC Charleston SSC Charleston	wx wx	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	2 2	916 960	YES YES	N/A N/A
JG020	GCCS-M Ashore	04 05	SSC Charleston/San Diego/GSA SSC Charleston/San Diego/GSA	WX/IP WX/IP	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	11 24	625 527	YES YES	N/A N/A
JG030	Trusted Information Systems - OED	04 05	Maxim San Diego Maxim San Diego	RC RC	NSMA NSMA		Jan-04 Dec-04	Mar-04 Mar-05	4 4	364 395	YES YES	N/A N/A
JG030	Trusted Information Systems - Radiant Mercury	05	Lockheed Martin Denver	RC	NSMA		Dec-04	Mar-05	1	310	YES	N/A
JG040	GCCS (Joint) Support Equipment	04 05	SSC Charleston/San Diego SSC Charleston/San Diego	wx wx	SPAWAR SPAWAR		Oct-03 Oct-04	Jan-04 Jan-05	20 20	78 125	YES YES	N/A N/A
JG050	Tactical Mobile GCCS-M Upgrades Communications & Mobility GCCS-M Upgrades Communications & Mobility	04 04 05 05	SSC Charleston SSC Charleston SSC Charleston SSC Charleston	WX WX WX WX	SPAWAR SPAWAR SPAWAR SPAWAR		various various various various	various various various various	3 15 11 14	410 551 448 316	YES YES YES YES	N/A N/A N/A N/A
D. REM	I IARKS	<u> </u>		l		1	<u> </u>			l		

Note: SSC Charleston/San Diego are integrating agents. There are multiple hardware contracts awarded under each cost code.

February 2004

MODIFICATION TITLE: COST CODE MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: GCCS-M Afloat Unit Level

JG010

The GCCS-M Afloat Unit Level system is the tactical C3I system for the BG / ARG Unit Level warfighting combatants and submarines and consists of both UNIX and NT servers / workstations running on a IT-21 LAN while providing the tactical commander with the COP, automated decision aids and an integrated tactical shipboard intelligence system that utilize joint organic, non-organic (remote sources) and environmental information/intelligence in the decision making and warfighting process. It also provides tactical commanders with an accurate, reliable and survivable Common Operational Picture (COP) which includes complete all-source information management, display and dissemination, rapid access to organic/theater/national intelligence and databases, and multi-source data fusion and imagery exploitation.

 ${\tt DEVELOPMENT\ STATUS/MAJOR\ DEVELOPMENT\ MILESTONES:}$ 

c	TINIANI		DI.	A NI-	/¢ ir	millions)	
ı	-IINAIN	UIAL	PL	AIN.	(2) II	i millions)	

(, , , , , , , , , , , , , , , , , , ,	Р	Υs	FY	′ 02	FY	03	FY	04	F`	Y 05	FY	′ 06	F۱	Y 07	FY	08	FY	09	T	C	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	246	23.56	52	5.22	48	5.76	17	6.13	10	3.52	46	17.01	15	5.67	44	17.21	46	18.51	CONT	CONT	CONT	CONT
Training Equipment Production Support		0.18		0.31																		
Other (DSA)		1.62		0.66		1.31		0.50		0.32		1.51		0.51		1.53		1.64	CONT	CONT	CONT	CONT
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	246 246	25.00 25.00	52 52	5.05 5.05	48 48	4.41 4.41	17	1.90	10	1.62	46	7.83	15	2.62	44	7.93	46	8.53	CONT	CONT	524 246 52 48	64.88 25.00 5.05 4.41
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP					40	4.41	17	1.90	10	1.62	46	7.83	15	2.62	44	7.93	46	8.53			17 10 46 15 44	1.90 1.62 7.83 2.62 7.93 8.53
FY TC EQUIP																	40	0.55	CONT	CONT	CONT	CONT
TOTAL INSTALLATION COST		25.00		5.05		4.41		1.90		1.62		7.83		2.62		7.93		8.53		CONT		64.88
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		50.35	l	11.23		11.48		8.53		5.46	TRATIVE	26.35 LEADTIM	1E·	8.80 1 mo.		26.67	PRODUC	28.67 CTION LEA	ADTIME:	CONT	3 mos.	CONT
	CONTRA	ACT DATE	:S:		FY 2003:		Oct-02			FY 2004:		Oct-03		FY 2005:		Oct-04		, , , , , , , , , , , , , , , , , , , ,	.512.		000.	
	DELIVER	RY DATES	3:		FY 2003:		Jan-03			FY 2004:		Jan-04		FY 2005:		Jan-05						
						FY 03				FY	04				FY	05				FY	06	
INSTALLATION SCHEDULE:	PYs	_		1	2	3	4		1	2	3	4		1	2	3	4	•	1	2	3	4
INPUT	298	;			19	19	10			6	6	5			4	3	3			16	15	15
ОИТРИТ	298	1			19	19	10			6	6	5			4	3	3			16	15	15
					<u>FY</u>	07				<u>FY</u>	80				FY	09						
INSTALLATION SCHEDULE:				1	2	3	4		1	2	3	4		1	2	3	4		TC		TOTAL	
INPUT					5	5	5			15	15	14			16	15	15		CONT		CONT	

Notes/Comments: Quantities refer to Unit Level ships and submarines. Currently, there are 224 Unit Level ships and 69 submarines in the Fleet.

MODIFICATION TITLE: COST CODE

GCCS-M Afloat Force Level

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

The GCCS-M Afloat Force Level system is the core battle group/force commander's warfighting system and consists of both UNIX and NT servers / workstations, color large screen displays, remote displays and switches running on a IT-21 LAN while providing the tactical commander with the COP, automated decision aids and an integrated tactical shipboard intelligence system that utilize joint organic, non-organic (remote sources) and environmental information/intelligence in the decision making and warfighting process. The Force Level system provides Tactical C3I systems tailored to meet platform missions and functions on ensure joint interoperability among various Fleet Commanders. It also provides both General Service (GENSER) and Sensitive Compartmented Information (SCI) source information management systems which receive, process, correlate, fuse, assess, and display the readiness and disposition of own, neutral, and potentially hostile forces together with Electronic Warfare (EW) resource and environmental information. Lastly, it provides tactical commanders with an accurate, reliable and survivable Common Operational Picture (COP) which includes complete all-source information management, display and dissemination, rapid access to organic / theater / national intelligence and databases, and multi-source data fusion and imagery exploitation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity			•				•															
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	61	15.39	14	8.25	8	6.66	4	6.54	8	9.34	8	9.75	8	10.00	8	10.12	8	10.44	CONT	CONT	CONT	CONT
Data Training Equipment Production Support Other (DSA) Interm Contractor Support		0.20		0.30 0.09		0.05		0.19		0.92		0.95		0.98		1.00		1.03	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP	61 61	13.23 13.23	14	9.06	8	3.84	4	2.98	8	4.81	8	4.96	8	5.11	8	5.26	8	5.42	CONT	CONT	127 61	54.67 13.23
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP			14	9.06	8	3.84	4	2.98	8	4.81	8	4.96									14 8 4 8	9.06 3.84 2.98 4.81 4.96
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP											ŭ		8	5.11	8	5.26	8	5.42	CONT	CONT	8 8 8 CONT	5.11 5.26 5.42 CONT
		13.23		9.06		3.84		2.98		4.81		4.96		5.11		5.26		5.42		CONT		54.67
TOTAL DROCLIDEMENT COST		20 02		17.60																		
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		28.82		17.69		10.55		9.71	ļ	15.08 ADMINIS	TRATIVE	15.66 LEADTIN	IE:	16.09 1 mo.		16.38	PRODUC	16.89 CTION LEA	ADTIME:	CONT	3 mos.	CONT
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	CONTRA	28.82 ACT DATE	S:	17.69	FY 2003:	10.55	Oct-02	9.71				15.66 ELEADTIM Oct-03	IE:				PRODUC	16.89 CTION LEA	ADTIME:	CONT	3 mos.	CONT
				17.69	FY 2003:		Oct-02 Jan-03	9.71		ADMINIS FY 2004: FY 2004:		LEADTIM	IE:	1 mo.		Oct-04 Jan-05	PRODUC		ADTIME:			CONT
		ACT DATE		17.69				9.71	1	ADMINIS FY 2004:		Oct-03	IE:	1 mo. FY 2005:	2	Oct-04	PRODUC 4		ADTIME:		3 mos.	CONT 4
METHOD OF IMPLEMENTATION:	DELIVER	ACT DATE			FY 2003:	FY 03	Jan-03	9.71	1	ADMINIS  FY 2004:  FY 2004:	<u>04</u>	Oct-03 Jan-04	IE:	1 mo. FY 2005: FY 2005:	2	Oct-04 Jan-05 <u>FY 05</u>			ADTIME:	Ē	<u>-Y 06</u>	
METHOD OF IMPLEMENTATION:  INSTALLATION SCHEDULE:	DELIVER PYs	ACT DATE			FY 2003:	FY 03 3	Jan-03 4	9.71	1	ADMINIS FY 2004: FY 2004: FY 2004:	<u>04</u> 3	Oct-03 Jan-04	IE:	1 mo. FY 2005: FY 2005:		Oct-04 Jan-05 <u>FY 05</u> 3	4		ADTIME:	<u> </u>	F <u>Y 06</u> 3	4
METHOD OF IMPLEMENTATION:  INSTALLATION SCHEDULE:  INPUT	PYs 75	ACT DATE			2 2 2	FY 03 3 3	Jan-03 4 3	9.71	1	ADMINIS FY 2004: FY 2004:  FY 2004: 2 2	04 3 2 2	Oct-03 Jan-04	IE:	1 mo. FY 2005: FY 2005:	2	Oct-04 Jan-05 <u>FY 05</u> 3	4		ADTIME:	<u> </u>	<del>2</del> Y 06 3 2	4
METHOD OF IMPLEMENTATION:  INSTALLATION SCHEDULE:  INPUT	PYs 75	ACT DATE			FY 2003: 2	FY 03 3 3	Jan-03 4 3	9.71	1	ADMINIS FY 2004: FY 2004:  FY 2004: 2	04 3 2 2	Oct-03 Jan-04	IE:	1 mo. FY 2005: FY 2005:	2	Oct-04 Jan-05 <u>FY 05</u> 3	4		ADTIME:  1  TC	<u> </u>	<del>2</del> Y 06 3 2	4
METHOD OF IMPLEMENTATION:  INSTALLATION SCHEDULE:  INPUT  OUTPUT	PYs 75	ACT DATE			2 2 2 FY	FY 03 3 3 3	Jan-03 4 3	9.71	1	ADMINIS FY 2004: FY 2004: FY 2004: 2 2 2 FY	04 3 2 2	LEADTIM Oct-03 Jan-04	IE:	1 mo. FY 2005: FY 2005:	2 2 <u>FY</u>	Oct-04 Jan-05 <u>FY 05</u> 3 2 2	4 4 4		1	<u> </u>	5 <u>Y 06</u> 3 2 2	4

Notes/Comments: Quantities refer to Force Level ships. Currently, there are 29 Force Level ships in the Fleet.

February 2004

UNCLASSIFIED
February 2004

MODIFICATION TITLE: COST CODE

TBMCS Afloat JG015

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Supports acquisition of hardware and software for the Theater Battle Management Core System (TBMCS). This system is a suite of USAF software applications that support air and space operations. TBMCS provides US forces with the ability to plan and control air operations. All DoD air operations, planners will use TBMCS to produce, generate, disseminate, and monitor execution of the ATO, air defense plan, master air attack plan, target nomination list, joint integrated prioritize target list, candidate target list.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(	<u>PYs</u>	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TC	<u>Total</u>
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	25 2.29	18 3.18	14 2.63	10 3.61	10 3.75	10 3.86	10 3.97	10 4.10	10 4.23	CONT CONT	CONT CONT
Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware	0.13	0.18 0.20 18 1.00	0.66	0.45 10 3.36	0.46 10 3.49	0.48 10 3.59	0.49 10 3.70	0.51 10 3.82	0.52 10 3.94	CONT CONT	CONT CONT  117 25.27
PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	25 1.16	18 1.00	14 1.21	10 3.36	10 3.49	10 3.59	10 3.70	10 3.82	10 3.94	CONT CONT	25 1.16 18 1.00 14 1.21 10 3.36 10 3.49 10 3.59 10 3.70 10 3.82 10 3.94 CONT CONT
TOTAL INSTALLATION COST	1.16	1.00	1.21	3.36	3.49	3.59	3.70	3.82	3.94	CONT	25.27
TOTAL PROCUREMENT COST	3.58	4.56		7.42	7.70	7.92	8.16		8.69	CONT	CONT
METHOD OF IMPLEMENTATION:				•	ADMINI	STRATIVE LEADTIN	ME: 2 mos		PRODUCTION LE	ADTIME:	3 mos.
	CONTRACT DATE		FY 2003:	Oct-02	FY 2004			FY 2005:	Oct-04		
	DELIVERY DATES	3:	FY 2003:	Jan-03	FY 2004	: Jan-04		FY 2005:	Jan-05		
INSTALLATION SCHEDULE:	PYs	1	<u>FY 03</u> 2 3	4	1 2	<u>Y 04</u> 3 4	1	<u>FY 05</u> 2 3	4	1 2	<u>Y 06</u> 3 4
			-			-		-			
INPUT	43		7 7		4	4 2		4 4	2	4	4 2
OUTPUT	43		7 7		4	4 2		4 4	2	4	4 2
INSTALLATION SCHEDULE:		1	<u>FY 07</u> 2 3	4	1	Y 08 3 4	1	<u>FY 09</u> 2 3	4	TC	TOTAL
INPUT			4 4	2	4	4 2		4 4	2	CONT	CONT
OUTPUT			4 4	2	4	4 2		4 4	2	CONT	CONT

Notes/Comments: Quantities refer to number of Force Level ships. Currently there are 29 Force Level ships in the Fleet.

UNCLASSIFIED
February 2004

MODIFICATION TITLE: COST CODE TBMCS Ashore JG015

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Supports aquisition of hardware and software for the Theater Battle Management Core System (TBMCS) shore sites.

This system is a suite of USAF software applications that support air and space operations. TBMCS provides US forces with the ability to plan and control air operations, including air and space control and air and missile defense. All DoD air operations, planners will use TBMCS to produce, generate, disseminate, and monitor execution of the air defense plan.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PYs Qty \$	FY Qty	02 \$	<u>FY</u> Qty	<u>′ 03</u> \$	<u>F\</u> Qtv	<u>/ 04</u> \$	Qty	<u>′ 05</u> \$	<u>FY</u> Qty	<u>′ 06</u> \$	<u>F\</u> Qty	<u>′ 07</u> \$	Qtv	<u>′ 08</u> \$	<u>FY</u> Qty	<u>/ 09</u> \$	Qty I	<u>C</u> \$	Qty	otal \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	5 0.97	1	0.16	4	0.84	2	0.50	2	0.52	2	0.52	4	1.08	2	0.65	2	0.68	CONT	CONT	CONT	CONT
Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP	5 0.18 5 0.18	1 1	0.05 0.04 0.04	4	0.12	2	0.09	2	0.09	2	0.09	4	0.23	2	0.15	2	0.18	CONT	CONT	24 5 1 4 2	1.16 0.18 0.04 0.12 0.09 0.09
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TO EQUIP TOTAL INSTALLATION COST	0.18		0.04		0.12		0.09		0.09	2	0.09	4	0.23	2	0.15	2	0.18	CONT	CONT	2 4 2 2 CONT	0.09 0.23 0.15 0.18 CONT 1.16
TOTAL PROCUREMENT COST	1.15		0.25		0.12		0.58		0.60		0.62		1.30		0.80		0.85		CONT		CONT
METHOD OF IMPLEMENTATION:									ADMINIS	TRATIVE	LEADTIN	ИE:	2 mos.			PRODUC	CTION LE	ADTIME:		3 mos.	<u></u>
	CONTRACT DAT	ES:			FY 2003:		Oct-02			FY 2004:		Oct-03			FY 2005:		Oct-04				
	DELIVERY DATE	S:			FY 2003:		Jan-03			FY 2004:		Jan-04			FY 2005:		Jan-05				
				FY	′ 03				FY	04				FΥ	′ 05				F	Y 06	
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4
INPUT	6			2	2		_		1	1				1	1		_		1	1	
OUTPUT	6				2	2				1	1				1	1				1	1
				FY	07				FY	08				<u>F</u>	′ 09						
INSTALLATION SCHEDULE:		-	1	2	3	4	-	1	2	3	4	-	1	2	3	4	-	TC		TOTAL	
INSTALLATION SCHEDULE:		-	1			4	_	1	1	1	4	-	1	1	1	4	_	TC CONT	•	TOTAL CONT	

Notes/Comments: Quantities represent sites. Currently, there are 6 TBMCS shore sites.

Classification

February 2004

MODIFICATION TITLE: COST CODE **Shipboard Video Distribution System** 

JG0

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The Shipboard Video Distribution System upgrade for Force Level ships provides the ability to route video signals (up to 96 inputs and 96 outputs) throughout selected areas of the ship. The system will be upgraded to provide digital signal routing via the IT-21 LAN to configured command, control and mission planning spaces on force level combatants and off board ship via VIXIS.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)				v 00			-			. 05		00		0.7		. 00	-		-	_	Τ.	4-1
	Qty	<u>Y</u> \$	Qty	Y 02 \$	Qty	<u>Y 03</u> \$	Qty	<u>/ 04</u> \$	Qty	<u>′ 05</u> \$	<u>FY</u> Qty	\$	Qty	07 \$	Qty	08 \$	Qty	<u>/ 09</u> \$	Qty T	<u>C</u> \$	Qty	o <u>tal</u> \$ I
RDT&E PROCUREMENT:	Qty	<b>\$</b>	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<b>\$</b>	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	10	6.23	2	1.58	1	1.01	2	1.83	2	1.92	2	1.94	2	1.97	2	2.00	2	2.03	CONT	CONT	CONT	CONT
Engineering Change Orders Data Training Equipment Production Support Other (DSA)		0.17		0.18 0.18		0.09		0.17		0.18		0.18		0.18		0.18		0.18	CONT	CONT	CONT	CONT
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP	9	5.27 5.27	2	1.50 1.50	1	0.85	2	1.76	2	1.73	2	1.75	2	1.77	2	1.79	2	1.81	CONT	CONT	24 9 2	18.23 5.27 1.50
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP					1	0.85	2	1.76	2	1.73	2	1.75									1 2 2 2	0.85 1.76 1.73 1.75
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP													2	1.77	2	1.79	2	1.81	CONT	CONT	2 2 2 CONT	1.77 1.79 1.81 CONT
TOTAL INSTALLATION COST		5.27		1.50		0.85		1.76		1.73		1.75		1.77		1.79		1.81		CONT	CONT	18.23
TOTAL PROCUREMENT COST		11.67		3.43		1.95		3.75		3.83		3.87		3.91		3.96		4.02		CONT	CONT	CONT
METHOD OF IMPLEMENTATION:	CONTRA	CT DATE	S·			FY 2003:		Oct-02		ADMINIS	TRATIVE FY 2004:		/IE: Oct-03	2 mos.		FY 2005:		Oct-04	ADTIME:		3 mos.	
	DELIVER					FY 2003:		Jan-03			FY 2004:		Jan-04			FY 2005:		Jan-05				
INSTALLATION SCHEDULE:	PY			1	<u>F`</u>	<u>Y 03</u> 3	4		1	<u>FY</u> 2	<u>04</u> 3	4		1	<u>FY</u> 2	<u>05</u>	4		1	<u>F</u>	<u>Y 06</u> 3	4
INO MEE MONOGNEE OEE.				<u> </u>				-					-					-				<u> </u>
INPUT	11				1					1	1				1	1				1	1	
OUTPUT	11					1					1	1				1	1				1	1
INSTALLATION SCHEDULE:				1	2 2	<u>Y 07</u> 3	4	_	1	<u>FY</u> 2	<u>08</u> 3	4	_	1	<u>FY</u> 2	<u>09</u> 3	4	_	TC		TOTAL	
INPUT					1	1				1	1				1	1			CONT		CONT	

Notes/Comments: Quantities refer to number of Force Level Ships. Currently, there are 29 Force Level Ships in the Fleet.

UNCLASSIFIED
February 2004

MODIFICATION TITLE: GCCS-M Ashore COST CODE JG020

COST CODE
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

N/A

Provides evolutionary systems and ancillary equipment upgrades to support CNO, Fleet Commanders in Chief, Unified Commanders, Type Commanders, Force Anti-Submarine Warfare (ASW) Commanders, and Submarine Operating Authorities worldwide. The GCCS-M Ashore provides a single system to receive, process, display, maintain and/or assess unit characteristics, employment scheduling, material condition, combat readiness, warfighting capabilities, and positional information of own, allied, and hostile forces. GCCS-M Ashore provides the tools necessary for Fleet and Shore based commanders to execute plans, transit tasking, and provide tactical information to subordinate forces. Offers distributed briefing capabilities among commands using video and large screen displays.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

THANGIAL FLAN. (\$111 HIIIIO113)	Р	Υs	FY	<b>/</b> 02	FY	′ 03	FY	′ 04	FY	′ 0 <u>5</u>	FY	′ 06	F	Y 07	FY	′ 08	FΥ	′ 09	Т	<u>C</u>	То	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	138	13.12	33	5.94	19	8.9	11	6.88	24	12.65	73	28.71	71	13.64	71	16.92	73	23.41	CONT	CONT.	CONT	CONT.
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP	138 138	2.10 2.10	33 33	1.62 1.62	19	4.20	11	1.02	24	2.27	73 73	6.08	71	1.60	71	2.52	73	4.20	CONT	CONT.	513 138 33 19 11 24 73 71 71 73 CONT	25.60 2.10 1.62 4.20 1.02 2.27 6.08 1.60 2.52 4.20 CONT.
TOTAL INSTALLATION COST		2.10		1.62		4.20		1.02		2.27		6.08		1.60		2.52		4.20	00.11	CONT.	00.11	25.60
TOTAL PROCUREMENT COST		15.22		7.56		13.07		7.90		14.93		34.79	<u> </u>	15.23		19.44		27.61		CONT.		CONT.
METHOD OF IMPLEMENTATION:										ADMINIS	IRATIVE	LEADTIN	VIE:	2 mos.			PRODUC	CTION LE	ADTIME:		3 mos.	
	CONTRA	ACT DATE	S:			FY 2003:		Oct-02			FY 2004	:	Oct-03	3		FY 2005:	:	Oct-04				
	DELIVER	RY DATES	S:			FY 2003:		Jan-03			FY 2004	:	Jan-04	ŀ		FY 2005:	:	Jan-05				
					FY	′ 03				FY	04				FY	05				F	Y 06	
INSTALLATION SCHEDULE:	PYs			1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4
		_						-					_					_				
INPUT	171				7	6	6			3	3	5			8	8	8			29	29	15
OUTPUT	171				7	6	6			3	3	5			8	8	8			29	29	15
INSTALLATION SCHEDULE:				1	<u>FY</u> 2	<u>′ 07</u> 3	4		1	<u>FY</u> 2	08 3	4	_	1	<u>F\</u> 2	<u>′ 09</u> 3	4	_	TC	_	TOTAL	

Notes/Comments: Quantities represent sites. Currently, there are 73 ashore sites.

28

28

28

15

15

INPUT

OUTPUT

28

28

15

15

29

29

29

15

CONT

CONT

CONT

CONT

UNCLASSIFIED February 2004

MODIFICATION TITLE:

**Trusted Information Systems** 

COST CODE MODELS OF SYSTEMS AFFECTED:

1/4

DESCRIPTION/JUSTIFICATION:

Trusted Information Systems (TIS) Ocean Surveillance Information System (OSIS) Evolutionary Development (OED) system provides for the analysis of intelligence information from multiple sources to produce a comprehensive report of foreign forces and potential hostile activity. In addition, it provides near-real-time all-source fusion, correlation and analysis tools, directly feeding automated reporting capabilities. TIS-OED provides positional data and operational intelligence to commanders at all levels. TIS - Radiant Mercury provides automated sanitizing, downgrading, and transliteration of formatted message traffic.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

### FINANCIAL PLAN: (\$ in millions)

,,	. <u>P</u>			<u> </u>		<u>/ 03</u>		<u>/ 04</u>		<u>′ 05</u>		<u>′ 06</u>		07		Y 08		<u>/ 09</u>	T		<u>Tot</u>	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment - TIS OED Equipment - TIS Radiant Mercury Equipment Nonrecurring Engineering Change Orders Data Training Equipment	<b>9</b> 9	<b>2.30</b> 2.30	<b>4</b> 4	<b>1.88</b> 1.88	<b>5</b> 3 2	<b>1.46</b> 0.86 0.60	<b>4</b> 4 0	<b>1.45</b> 1.45 0.00	<b>5</b> 4 1	<b>1.89</b> 1.58 0.31	<b>6</b> 4 2	<b>3.06</b> 2.55 0.50	<b>5</b> 4 1	<b>1.67</b> 1.35 0.32	<b>5</b> 4 1	<b>1.22</b> 0.97 0.25	<b>5</b> 4 1	<b>3.22</b> 2.96 0.25	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT
Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP	9 9	0.13 0.13	4	0.07 0.07	3	0.08	4	0.08	4	0.08	4	0.08	4	0.08	4	0.09	4	0.09	CONT	CONT.	40 9 4 3 4 4 4 4	0.77 0.13 0.07 0.08 0.08 0.08 0.08 0.08 0.09
FY TC EQUIP																	-	0.00			CONT.	CONT.
TOTAL INSTALLATION COST		0.13		0.07		0.08		0.08		0.08		0.08		0.08		0.09		0.09		CONT.		0.77
TOTAL PROCUREMENT COST		2.43	<u> </u>	1.95		1.54		1.53		1.97	STRATIVE	3.14	45	1.75		1.31	DDODLI	3.31 CTION LEA	DTIME	0.00	0	0.77
METHOD OF IMPLEMENTATION:	CONTRA	CT DATE	S:			FY 2003:		Dec-02		ADMINIS	FY 2004		vi⊑: Jan-04	2 mos.		FY 2005:		Dec-04	ADTIME:		3 mos.	
	DELIVER	RY DATES	<b>S</b> :			FY 2003:		Mar-03			FY 2004	:	Mar-04			FY 2005:		Mar-05				
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	03 3	4		1	<u>FY</u> 2	<u>′ 04</u> 3	4	_	1	<u>FY</u> 2	05 3	4		1	<u>F</u>	<u>Y 06</u> 3	4	_
INPUT	13			2	1				2	2				2	2				2	2		
OUTPUT	13			2	1				2	2				2	2				2	2		
				<u>FY</u>	07					<u>′ 08</u>					09							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	=	1	2	3	4		,	TC		TOTAL	
INPUT				2	2				2	2				2	2				CONT		CONT	
OUTPUT				2	2				2	2				2	2				CONT		CONT	

Notes/Comments: Quantities represent sites. Currently, there are 4 TIS-OED sites.

TIS - Radiant Mercury is procured under a "turn key" contract, therefore, installation funds are not shown separately.

MODIFICATION TITLE: Global Command and Control System (GCCS) - Joint February 2004

COST CODE MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

GCCS-Joint is an operational multi-service/agency program. GCCS-Joint supports the National Command Authority (NCA) and the CINC's by providing Command, Control and Communication (C3) data processing capabilities including status of forces and support requirements for use in security decision making, force preparation and operational planning execution. Equipment is scheduled for installation at Navy supported GCCS-Joint shore sites. Procurements includes intelligent workstations, servers and software equipment.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

DEVELOPMENT STATUS/MAJOR DEVE	ELOPMENT	WILES I OI	NES:																			
FINANCIAL PLAN: (\$ in millions)	ь	Υ	EV	02	Ε\	′ 03	EV	′ 04		Y 05		<b>/</b> 06	EV	07	EV	08		′ 09	-	<u>-c</u>	To	tal
	l Qty	- s I	Qtv	\$	Qty	<u> </u>	Qty	<u>04</u> \$	Qtv	\$	Qtv	\$	Qtv	<u>07</u> \$	Qty	\$	Qty	\$	Qty 1	<u> </u>	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	41	5.03	20	1.82	20	1.42	20	1.56	20	2.49	20	1.571	20	2.00	20	2.41	20	1.63	CONT	CONT.	CONT	CONT.
Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 05 EQUIP	41 41	1.48 1.48	20 20	0.48	20 20	0.42	20	0.41	20	0.41	20	0.42	20	0.43	20	0.43	20	0.44	CONT	CONT.	201 41 20 20 20 20	4.91 1.48 0.48 0.42 0.41 0.41
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP				0.10		0.10					20	0.420	20	0.43	20	0.43	20	0.44	CONT	CONT.	20 20 20 20 CONT	0.42 0.43 0.43 0.44 CONT.
TOTAL INSTALLATION COST		0.00		0.48		0.42		0.41		0.41		0.42		0.43		0.43		0.44	CONT	CONT.	CONT	4.91
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	<u> </u>	6.50		2.31		1.84		1.97		2.90	TD 4 TI\ /E	1.99 ELEADTIN	4E.	2.42 1 mo.		2.84	DDODLI	2.06 CTION LE	CONT	CONT.	CONT 3 mos.	CONT.
METHOD OF IMPLEMENTATION:	CONTRA	CT DATE	S:			FY 2003:		Oct-02			FY 2004		Oct-03	i mo.		FY 2005:		Oct-04	ADTIME:		3 mos.	
	DELIVER	Y DATES	:			FY 2003:		Jan-03			FY 2004	:	Jan-04			FY 2005:		Jan-05				
INSTALLATION SCHEDULE:	PY			1	2 2	<u>′ 03</u> 3	4		1	2 <u>FY</u>	<u>' 04</u> 3	4		1	<u>FY</u> 2	<u>' 05</u> 3	4	_	1	2 2	<u>7 06</u> 3	4
INPUT	61				8	8	4			8	8	4			8	8	4			8	8	4
OUTPUT	61				8	8	4			8	8	4			8	8	4			8	8	4
INSTALLATION SCHEDULE:				1	<u>FY</u> 2	<u>′ 07</u> 3	4		1	<u>FY</u> 2	<u>′ 08</u> 3	4		1	<u>FY</u> 2	<u>' 09</u> 3	4	-	TC	-	<u>TOTAL</u>	
INPUT					8	8	4			8	8	4			8	8	4		CONT.		CONT.	
OUTPUT					8	8	4			8	8	4			8	8	4		CONT.		CONT.	

Notes/Comments: Quantities represent sites. Currently, there are 20 GCCS-Joint sites.

MODIFICATION TITLE: Tactical/Mobile (GCCS-M) Upgrades February 2004

COST CODE

MODELS OF SYSTEMS AFFECTED: N/A

JG050

DESCRIPTION/JUSTIFICATION:

DESCRIPTION/JUSTIFICATION: This line procures various types of Command and Control Equipment in order to provide an upgraded capability to present TSC systems and to replace the equipment when it has reached the end of service life, assuring the existing system are interoperable with other Navy and Joint C3I systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty	<u>′</u> s I	<u>FY</u> Qtv	<u>′ 02</u> \$	<u>FY</u> Qtv	03 \$	FY Qty	<u>04</u> \$	<u>F</u> Qty	Y 05 \$	Qtv	<u>Y 06</u> \$	Qtv	<u>/ 07</u> \$	<u>FY</u> Qty	08 \$	FY Qty	<u>09</u> \$	Qty	<u>C</u> \$	<u>To</u> Qty	tal \$ I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment (TSC - fixed sites) Equipment (Mobile Systems) Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	8 8 8	<b>4.57</b> 4.57	1 1	<b>3.39</b> 3.39	<b>4</b> 1 3	1.37 0.58 0.80	3 1 2	<b>1.23</b> 0.53 0.70	111 5 6	<b>4.93</b> 1.16 3.77	111 5 6	<b>4.25</b> 1.19 3.05	12 7 5	<b>0.90</b> 0.37 0.53	<b>14</b> 5 9	1.25 0.27 0.98	<b>5</b> 2 3	<b>2.23</b> 0.51 1.72	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT
Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	7 7	0.61 0.61	2 1 1	0.56 0.28 0.28	1	0.05	1	0.53	5	0.76	5	0.78	7	0.37	5	0.27	2	0.33	CONT	CONT	35 7 1 1 1 5 5 7 5	4.27 0.61 0.28 0.28 0.05 0.53 0.76 0.78 0.37 0.27 0.33
FY TC EQUIP TOTAL INSTALLATION COST		0.61		0.56		0.05		0.53		0.76		0.78		0.37		0.27		0.33	CONT	CONT	CONT	4.27
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		5.19		3.96		1.42		1.76		5.69	TDATI) (	5.03 E LEADTIN		1.28 Various		1.52	PRODUC	2.56	CONT	0.00	CONT Various	4.27
METHOD OF IMPLEMENTATION.											IKAIIV		IE.					TION LE	ADTIIVIE.		various	
	CONTRA	CT DAT	ES:		FY 2003:		various			FY 2004:		various			FY 2005:		various					
	DELIVER	Y DATE	S:		FY 2003:		various			FY 2004:		various			FY 2005:		various					
					FY	03				FY	04				FY	05				E	<u>′ 06</u>	
INSTALLATION SCHEDULE:	PY			1	2	3	4		1	2	3	4	•	1	2	3	4		1	2	3	4
INPUT	9				1					1				1	2	2			1	2	2	
OUTPUT	9					1					1				1	2	2			1	2	2
INSTALLATION SCHEDULE:				12	<u>FY</u> 2	07 3 3	4		<u>1</u>	2 2	08 3 2	4		1	<u>FY</u> 2	09 3	4		TC CONT		TOTAL CONT	
OUTPUT					2	2	3			1	2	2				1	1		CONT		CONT	

#### Notes/comments:

For FY03, quantities represent only the GCCS-M component system upgrades of T/M systems. T/M I/O includes: TSC (14), MOCC (9), JMAST (4), and MOC (1). The total I/O is 28. For FY04 through FY07, quantities represent only the GCCS-M component system upgrades for TSC systems. The total I/O for TSC systems is 14. Mobile systems in the Tac/Mobile program are procured "turn key".

UNCLASSIFIED February 2004

MODIFICATION TITLE: Tactical/Mobile Communications & Mobility Upgrades JG050

COST CODE MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

This line procures various types of Communications and Mobility Equipment in order to provide an upgraded capability to present TSC systems and to replace the equipment when it has reached the end of service life, assuring the existing system remains interoperable with Joint and Naval Forces, as well as updated aircraft, sensors, and weapons systems.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u> </u>	PΥ	<u>F</u>	02	FY	03	<u>F</u>	<u> </u>	EY	<u> </u>	FY	06	<u>F</u>	<u> </u>	FY	′ 08	<u>F`</u>	<u>/ 09</u>	<u> </u>	C	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment (TSC - fixed sites) Equipment (Mobile Systems) Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	<b>20</b> 20	<b>12.03</b> 12.03	<b>14</b> 14	<b>5.05</b> 5.05	<b>9</b> 9	<b>9.68</b> 9.68	<b>15</b> 9 6	<b>8.27</b> 2.89 5.37	<b>14</b> 7 7	<b>4.43</b> 1.40 3.02	<b>13</b> 5 8	<b>6.53</b> 3.62 2.91	<b>7</b> 2 5	<b>4.45</b> 1.31 3.14	<b>9</b> 2 7	<b>4.27</b> 1.34 2.93	<b>13</b> 6 7	<b>10.01</b> 4.80 5.21	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT	CONT CONT CONT
Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 05 EQUIP	19 19	4.19 4.19	14 1 13	1.32 0.26 1.06	10 1 9	1.37 0.20 1.16	9	0.37	7	0.79	5	0.82	2	0.25	2	0.23	6	0.61	CONT	CONT	74 19 1 14 9 9	9.94 4.19 0.26 1.26 1.16 0.37 0.79
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP											5	0.82	2	0.25	2	0.23	6	0.61	CONT	CONT	5 2 2 6 CONT	0.82 0.25 0.23 0.61 CONT
TOTAL INSTALLATION COST		4.19		1.32		1.37		0.37		0.79		0.82	ļ	0		0.23		0.61	CONT	CONT	CONT	9.94
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		16.22		6.37	l .	11.05		8.64		5.21	TDATIVE	7.35 LEADTIN	ME.	4.70 Various		4.50	PRODU	10.62 CTION LE	CONT	0	CONT Various	9.94
INCTION OF INFECTIONATION.	CONTRA	ACT DATE	ES:			FY 2003:		various			FY 2004:		various	various		FY 2005:		various	ADTIME.		various	
	DELIVE	RY DATES	S:			FY 2003:		various			FY 2004:		various			FY 2005:		various				
					FY	03				FY	04				FY	′ 05				<u>F</u>	<u>Y 06</u>	
INSTALLATION SCHEDULE:	PY	_		1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4
INPUT	33			2	4	4			3	3	3			1	2	4			1	2	2	
OUTPUT	33				2	4	4			3	3	3			1	2	4			1	2	2
					FY	07				FY	<u>′ 08</u>				FY	′ 09						
INSTALLATION SCHEDULE:				1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	TC	-	TOTAL	
INPUT					1	1				1	1			1	2	3			CONT		CONT	
OUTPUT						1	1				1	1			1	2	3		CONT		CONT	

For FY03 through FY07, quantities represent only the Comms & Mobility component system upgrades of T/M TSC systems. Total I/O is 14. Mobile systems in the Tac/Mobile program are procured "turn key".

# UNCLASSIFIED CLASSIFICATION

								DATE	Febru	ary 2004
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & EL		UIPMENT		P-1 ITEM NON 261100 Naval			tem		SUBHEAD 52DY	
	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)	338.5	31.6	51.3	26.2	81.1	13.8	31.0	39.3	CONTINUING	CONTINUING

Narrative Description/Justification:

PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS: The Naval Tactical Command Support System (NTCSS) is a multi-function program designed to provide standard tactical support information systems to various afloat and associated shore-based fleet activities. The mission is to provide the full range of responsive tactical support ADP hardware and software in support of the management of information, personnel, material and funds required to maintain and operate ships, submarines, and aircraft. NTCSS is to provide an efficient management of afloat tactical support data, through the use of standardized hardware and software, to meet the mission support information management requirements for force sustainment. On 6 June 1995, NTCSS and its component subsystems, discussed below, were selected as Command and Control migration systems under the auspices of ASD (C3I).

NTCSS incorporates the functionality of the Shipboard Non-Tactical ADP Program (SNAP) systems, the Naval Aviation Logistics Command Management Information System (NALCOMIS), and the Maintenance Resource Management System (MRMS).

SNAP is an automated information system that supports organizational level maintenance, supply, financial and administrative functions on afloat units, at Marine Aviation Logistics Squadrons (MALS) and at associated shore activities. Due to the age and obsolescence of SNAP I and SNAP II, these systems are being replaced with SNAP III in the 1994 through 2000 time frame. SNAP improves equipment supportability and maintainability and thus readiness through: improvement in the accuracy of maintenance, supply, financial and related support data maintained and reported by the ship; and acceleration of management report preparation and data transmission. The scope of SNAP includes approximately 300 sites.

NALCOMIS is an automated, real time, interactive, management information system that provides a modern management tool for day-to-day management of aircraft maintenance at the organizational and intermediate levels. NALCOMIS automates management of the aviation repairables inventory, providing nose-to-tail tracking through the repair and operations cycles. The scope of NALCOMIS includes 66 aviation intermediate maintenance activities located afloat (CV/LHA/LHD/MALS), at Naval Air Stations (NASs), and approximately 326 Navy and Marine Squadrons.

MRMS is an automated information system that supports ship intermediate maintenance management of the Atlantic and Pacific Fleets. MRMS supports Type Commands, Group Commanders, Area Coordinators, Readiness Support Groups, Submarine Squadrons, Ship Repair Facilities, and various Intermediate Maintenance Activities, both afloat and ashore, for budgeting, planning, production and analysis of ship maintenance. MRMS improves ship readiness through improved maintenance and ship repair management, information resource management, and maintenance data processing. The scope of MRMS includes approximately 16 shipboard and 65 shore based intermediate and maintenance and planning activities.

Funding for FY03-09 procures: 1) NTCSS system upgrades for ships; 2) NTCSS system upgrades for Naval Air Stations, Squadrons, Shore Support Facilities, Fleet Training Centers and MALS; and 3) necessary production engineering and installation support.

INSTALLATION AGENT: All FMP installations will be accomplished by Yard Availability.

Exhibit P-40, Budget Item Justification

# UNCLASSIFIED CLASSIFICATION

<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE	February 2004
PPROPRIATION/BUDGET ACTIVITY DP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE 261100 Naval Tactical Command Support System		SUBHEAD 52DY
Narrative Description/Justification: (continued)			
The Navy Marine Corps Intranet (NMCI) provides the LAN and PCs at CONUS Na Naval Air Stations and training sites. Because ships, OCONUS sites, and MALS PCs, COTS software, printers, and NTCSS application servers and server software	are not included in the scope of the seat management concept under NM		
Beginning in FY03, NTCSS will procure and install Intel servers procured from NA FY03, NTCSS will field the Web-enabled version of the NTCSS applications. Ther			
In FY04 and FY05, NTCSS will continue with the procurement and install of Intel s	servers, standard PCs and printers to meet Next Generation Network (NG	N) requirements both a	afloat and ashore.

Exhibit P-40, Budget Item Justification

P-1 SHOPPING LIST ITEM NO. 49-2 of 49-8

	COST ANALYSIS										DATE		Febi	ruary 2004	
	ATION ACTIVITY				P-1 IT	EM NOMEN	CLATURE	_			SUBHEA	AD			
OP,N - BA-2	COMMUNICATIONS AND ELECTRONIC EQUIPMENT	ı			26110	0 Naval Tact	ical Command	Suppor	t System	ANDS OF DOL	52DY				
				PY		FY 200	03		FY 200	04	LANC	FY 2005			
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
D\/000	MAL 0/01 Facilities			00.050											
	MALS/Shore Equipment	A	41	29,059											
	Ship Set Equipment	A	122	75,090	40	000.00	0.450		000.00	44.504	0	044.04	0.544		
DY005	Ship Set Equipment Upgrades	A	143	60,483		288.22	3,459	38	383.26	14,564	8	314.21	2,514		
DY006	MALS/Shore Equipment Upgrades	Α	339	70,106	108	119.48	12,904	98	180.21	17,660	96	104.15	9,998		
DY500	Production Support			11,026											
	Production Support	Α		10,139			1,409			2,626			989		
	- Todasanan cappan			,			,,,,,,,			_,,					
	INSTALLATION			82,732			13,844			16,403			12,707		
	Non-FMP Installation														
	NTCSS	_		20.707			10.052			10 175			11 110		
סוווט	101055	Α		29,707			10,053			12,175			11,449		
	FMP Installation														
	NTCSS	Α		51,000			3,700			3,523			954		
D	NTCSS-DSA	, ,		2,025			91			705			304		
	TOTAL CONTROL			338,635			31,616			51,253			26,208		

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 49-3 of 49-8

Exhibit P-5, Cost Analysis

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 261100 Naval Tactical Command Support System 52DY CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FY AND **METHOD** LOCATION ISSUE **AWARD** OF FIRST QTY UNIT AVAILABLE REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE **DELIVERY** COST NOW **AVAILABLE** DY005 Ship Set Equipment Upgrades 03 Q70 IDIQ Nov-02 Jan-03 12 220.704 Yes Navy SPAWAR Consolidated 12 IDIQ Navy Nov-02 Jan-03 66.731 Yes Various IDIQ Navy Nov-02 Jan-03 12 789 Yes Q70 Ship Set Equipment Upgrades 04 **IDIQ** Navy Nov-03 Jan-04 38 311,839 Yes SPAWAR Consolidated Nov-03 **IDIQ** Navy Jan-04 38 70,086 Yes IDIQ Nov-03 38 1,333 Various Navy Jan-04 Yes Ship Set Equipment Upgrades 05 Q70 IDIQ Navy Nov-04 Jan-05 8 267,950 Yes SPAWAR Consolidated IDIQ Nov-04 Jan-05 45,195 Yes Navy 8 Various IDIQ Navy Nov-04 Jan-05 8 1,069 Yes

#### D. REMARKS

Between years, the composition of ships changes, i.e., one year may have more larger ships like CVs while another year may consist mainly of SSNs. As a result, the per unit costs are different. Moreover, different ships require different peripherals listed under the "Various" category, which leads to per unit cost differences in that category.

DD FORM 2446, JUN 87

P-1 SHOPPING LIST
ITEM NO. 49-4 of 49-8

Exhibit P-5A, Procurement History and Planning

UNCLASSIFIED CLASSIFICATION

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE **SUBHEAD** OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 261100 Naval Tactical Command Support System 52DY CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FY LOCATION ISSUE **AWARD** OF FIRST QTY UNIT AVAILABLE AND METHOD REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE **DELIVERY** COST NOW **AVAILABLE** DY006 MALS Equipment Upgrades 03 Q70 IDIQ Navy Nov-02 Jan-03 108 79,868 Yes SPAWAR Consolidated **IDIQ** Navy Nov-02 Jan-03 108 39,201 Yes Various **IDIQ** Navy Nov-02 Jan-03 108 411 Yes MALS Equipment Upgrades 04 Q70 **IDIQ** Navy Nov-03 Jan-04 98 101.018 Yes SPAWAR Consolidated Nov-03 Jan-04 98 78,371 **IDIQ** Navy Yes 98 Various **IDIQ** Navy Nov-03 Jan-04 818 Yes MALS Equipment Upgrades 05 Q70 IDIQ Jan-05 96 60,699 Navy Nov-04 Yes SPAWAR Consolidated **IDIQ** Navy Nov-04 Jan-05 96 43,005 Yes Yes Various **IDIQ** Navy Nov-04 Jan-05 96 445

#### D. REMARKS

Between years, shore site configurations change, i.e., more larger sites in one year compared to another. As a result, the per unit costs are different. Moreover, different shore site configurations require different peripherals listed under the "Various" category, which leads to per unit cost differences in that category.

**DD FORM 2446, JUN 87** 

Exhibit P-5A, Procurement History and Planning

UNCLASSIFIED CLASSIFICATION

MODIFICATION TITLE:

261100 Naval Tactical Command Support System Ship Set Equipment Upgrades (52DY/DY005).

MODELS OF SYSTEMS AFFECTE DESCRIPTION/JUSTIFICATION:

MODELS OF SYSTEMS AFFECTED: Provides modern centrally managed mission support ADP system upgrades and NTCSS-Optimized software to replace aging systems for Battle Group and unit level ships.

Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also provide ship capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering drawings, automated technical manuals, etc.).

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																							
		<u>P'</u>			02		<u>′ 03</u>		04		05		<u>′ 06</u>		07		08		09	<u>TC</u>		_ <u>I</u>	<u>otal</u>
RDT&E	ļ.	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDIAE PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																							
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment		126	55.3	17	5.2	12	3.5	38	14.6	8	2.5	91	33.2	0	0.0	0	0.0	5	1.5	Continuing	0.0	297	115.8
Production Support Other (DSA) Interm Contractor Support			4.9 1.6		0.4 0.1		0.3 0.1		1.2 0.7		0.2 0.3		2.6 1.8		0.0 0.0		0.0		0.1 0.1	Continuing Continuing	0.0 0.0		9.7 4.7
Installation of Hardware* PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP		120 120	19.7 19.7	20 6 14	6.5 2.4 4.1	14 3	3.7 1.2	33	3.5	11	1.0	94	12.1	0	0.0	0	0.0	5	0.4	Continuing	0.0	297 120 6 17	46.9 19.7 2.4 5.3
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP					7.1	11	2.5	1 32	0.1 3.4	6 5	0.6 0.4	3 91	0.3 11.8	0	0.0	0	0.0	5	0.4			12 38 8 91 0 0	2.6 4.0 0.7 11.8 0.0 0.0
TOTAL INSTALLATION COST	F	120	19.7	20	6.5	14	3.7	33	3.5	11	1.0	94	12.1	0	0.0	0	0.0	5	0.4			297	46.9
TOTAL PROCUREMENT COST	Ī		81.5		12.2		7.6		20.0		4.0		49.7		0.0		0.0		2.1				177.1
METHOD OF IMPLEMENTATION:	_								ADMINIS	TRATIVE	LEADTIN	1E:	2 months			PRODUC	TION LEA	ADTIME:		2 months			
CONTRACT DATES:	ı	FY 2003:		Nov-02			FY 2004:		Nov-03				FY 2005:		Nov-04								
DELIVERY DATES:	I	FY 2003:		Jan-03			FY 2004:		Jan-04				FY 2005:		Jan-05								
INSTALLATION SCHEDULE: PY		1	2 2	<u>/04</u> 3	4	_	1	2 2	<u>′05</u> 3	4		1	2 2	<u>06</u> 3	4								
INPUT 154		1	10	11	11		6	1	2	2		3	30	30	31								
OUTPUT 154	1	1	10	11	11		6	1	2	2		3	30	30	31								
				FY 07				FY	08				FY	09									
INSTALLATION SCHEDULE:	-	1	2	3	4	_	1	2	3	4	•	11	2	3	4	•	TC		TOTAL *				
INPUT			0	0	0			0	0	0			1	2	2				297				
OUTPUT			0	0	0			0	0	0			1	2	2				297				

<sup>\*</sup> NTCSS Afloat Inventory Objective is 256. Total quantity indicate hardware & Software upgrades, procurement, Y2K fixes and installation.

Total

MODIFICATION TITLE: 261100 Naval Tactical Command Support System MALS/Shore Equipment Upgrades(52DY/DY006)

EV 02

EV 03

MODELS OF SYSTEMS AFFECTED: Provides modern centrally managed mission support ADP system upgrades, and IMA-Optimized and OMA-Optimized software to replace aging systems at MALS, Naval Air Stations,

squadrons, and training sites. IMA is the aviation Intermediate Maintenance Activity and OMA is the aviation Organizational Maintenance Activity.

EV 04

DESCRIPTION/JUSTIFICATION: Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also

EV 05

provide ship/shore capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering drawings, automated technical manuals, etc.).

EV 07

EV 00

EV 00

EV 06

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

		<u>P'</u>		<u>FY</u>			<u>′ 03</u>		<u> </u>		<u> 7 05</u>		06		07		′ 08		09	TC		Total	
RDT&E		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qt	у	\$
ROTAL PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data		230	54.5	109	15.6	108	12.9	98	17.7	96	10.0	100	18.0	45	7.8	98	17.4	105	21.0	Continuing	98	9 1	74.9
Training Equipment Production Support Other (DSA)			3.6		1.2		1.1		1.4		0.8		1.4		0.6		1.4		1.7	Continuing	0	1	13.2
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 01 EQUIP		230 230	15.0 15.0	109	12.0	108	10.1	98	12.2	96	11.4	100	12.4	45	5.4	98	12.2	105	14.4	Continuing	65	0 7	78.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP				109	12.0	108	10.1	98	12.2	96	11.4	100	12.4	45	5.4	98	12.2	105	14.4		10 98 96 10 48 98	3 1 3 1 0 1 5 1	10.1 12.2 11.4 12.4 5.4 12.2
TOTAL INSTALLATION COST		230	15.0	109	12.0	108	10.1	98	12.2	96	11.4	100	12.4	45	5.4	98	12.2	105	14.4		65	) 7	78.0
TOTAL PROCUREMENT COST			73.1		28.8		24.1		31.3		22.2		31.8		13.8		31.0		37.1		-		66.1
METHOD OF IMPLEMENTATION:							ADMINIS	TRATIVE	LEADTIN	1E:	2 months			PRODUC	CTION LE	ADTIME:		2 months	i				
CONTRACT DATES:		FY 2003:		Nov-02			FY 2004:		Nov-03					FY 2005:		Nov-04							
DELIVERY DATES:		FY 2003:		Jan-03			FY 2004:		Jan-04					FY 2005:		Jan-05							
INSTALLATION SCHEDULE: F	PY	1	<u>FY</u> 2	<u>′ 04</u> 3	4		1	2 2	<u>/ 05</u> 3	4	_	1	2 <u>FY</u>	<u>06</u> 3	4	_							
INPUT 4	447		32	33	33			32	32	32			33	33	34								
OUTPUT 4	447		32	33	33			32	32	32			33	33	34								
				FY 07					<u>/ 08</u>					09									
INSTALLATION SCHEDULE:		1	2	3	4	•	1	2	3	4	-	1	2	3	4	-	TC	-	TOTAL *				
INPUT			15	15	15			32	33	33			35	35	35				989				
OUTPUT			15	15	15			32	33	33			35	35	35				989				

<sup>\*</sup> NTCSS Shore Inventory Objective is 397. Total quantity indicate hardware & Software upgrades, procurement, Y2K fixes and installation.

## UNCLASSIFIED CLASSIFICATION

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PPROPR	RIATION/BUDGET ACTIVITY															P-1 I	TEM	NON	IENC	LATU	JRE						(-				,				SUBH	IEA	D NO			
P,N - BA	2 COMMUNICATIONS & ELE	CTRONIC	EQU	IPMEN	NT												2611	00 N	laval	Tactio	cal Co	omm	and S	uppo	rt Sys	stem									5	52DY	1			
			s		ACCEP	BAL					FISC.	AL YE	AR		03							F	ISCAL	YEA	ιR	04								FISC	AL YE	AR	(	05		
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE		CY 0	2					CALE	NDA	R YE	AR		03					CAL	END	AR YE	AR		04				С	ALEN	DAR'	YEAF	R	0:	5	
CODE			R	QTY	то	AS OF	0	N	D	J	F	М	Α	M	J	J	Α	S	0	N	D	J	F N	1 /	A N	1 J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α
			v		30-Sep	30-Sep	С	О	Е	Α	Е	Α	Р	Α	U	U	U	Е	С	0	E	Α	E A	\ F	·   /	\ U	U	U	E	С	0	Е	Α	E	Α	Р	Α	U	U	U
		FY					Т	v	С	N	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	ВЕ	₹ F	٦ ١	r N	L	G	Р	Т	٧	С	N	В	R	R	Υ	N	L	G
																																		ī						
DY005	COTS H/W and S/W	03		12	11	1		Α		1	1	1	1	1	2	1	1	2		1														ī						
DY005	COTS H/W and S/W	04		38	32	6														Α		3	3 4	1 3	3 4	1 4	. 3	4	4	2	2	2		ī						$\Box$
DY005	COTS H/W and S/W	05		8	5	3																									Α		1					2		
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																																		iΠ						$\Box$
DY006	COTS H/W and S/W	04		98	98															Α		10	11 1	1 1	1 1	1 1	1 11	11	11					ī						
DY006	COTS H/W and S/W	05		96	96																										Α		10	11	11	10	11	11 1	10	11
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	•						ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV I	DEC .	JAN	FEB M	D A	PR MA	AY JUI	N JUL	. AUG	SEP.	ост	NOV	DEC	JAN	FFR	MAR	APR	MAY	JUN J	JUL /	AUG

									1	
			PRODUCTION RAT	E		PROCUREME	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
COTS Hardware and Software	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
_										

NAVMAT FORM 7110/4 (REVISED 11/77)

P1- SHOPPING LIST ITEM NO. 49-8 of 49-8 Exhibit P-21, Production Schedule

UNCLASSIFIED CLASSIFICATION

#### CLASSIFICATION

BUDGET ITEM JUSTIFICA	TION SHEET					DATE		Februar	y 2004
APPROPRIATION/BUDGET ACTIVITOP,N - BA2 COMMUNICATIONS & ELI		NT		P-1 ITEM NOM Advanced Tactica	ENCLATURE  l Data Link Syster	ns 2614	T	SUBHEAD 52DR	
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	ТО СОМР	TOTAL
QUANTITY									
COST (in millions)	9.004	16.063	2.386	13.237	11.562	11.795	12.033	Continuing	Continuing

PROGRAM COVERAGE: The Advanced Tactical Data Link Systems (ATDLS) funds the Time Division Multiple Access (TDMA) family of Link 16 terminals including the Joint Tactical Information Distribution System (JTIDS) terminals and the Multifunctional Information Distribution System - Low Volume Terminal (MIDS-LVT) and the Tactical Digital Information Link J (TADIL J) message standard databases resident in the Command & Control Processor (C2P) sub-system. The Common Data Link Management System (CDLMS) is designated as Pre-planned Product Improvement (P3I) of the C2P. ATDLS also funds the LMS 16 Link Monitoring System and the Next Generation C2P which will support Link-22, Joint Range Extension and other ATDLS enhancements

AN/URC-107(V) TERMINALS (JTIDS): AN/URC-107(V) Joint Tactical Information Distribution System (JTIDS) is an advanced radio system that provides information distribution, position location, and identification capabilities in an integrated form for application to military operations. The system is able to distribute information at high rates, encrypted to provide security, and with sufficient jam resistance to yield high reliability communications in a hostile electromagnetic environment. JTIDS provides the ability to interconnect multiple sources (air, ground, maritime, subsurface, and electronic warfare) and users of information. It provides surface and airborne elements with both a position location capability within a common position reference grid and an intrinsic identification capability through the dissemination of secure position and identity information. It is a multiservice system in that Army JTIDS interoperates with the U.S. Air Force, U.S. Navy, and U.S. Marines JTIDS Class 2 terminals.

AN/UYQ-86 COMMAND AND CONTROL PROCESSOR (C2P) REHOST (C2P(R))/COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS): AN/UYQ-86 C2P(R)/CDLMS program is the acquisition of commercial-off-the-shelf (COTS) versa module eurocards (VME) based Navy computers in conjunction with a software suite to provide the interface between tactical and digital communication systems and selected shipboard processors (Advanced Combat Direction Systems (ACDS) and AEGIS Command & Decision (C&D)). C2P extracts information from the Tactical Digital Information Links (TADILS) A, C & J (or Link 11, Link 4A, and Link 16), translates between TADILS and provides the information back to the on-board processor. This provides flexible capability for rapidly exchanging tactical information using a universal database for translating various Link formats while remaining independent of communication equipment and tactical data computing systems. C2P Rehost uses COTS hardware (AN/UYQ-70), making the system easier and cheaper to upgrade and maintain.

CDLMS is designated as the pre-planned product improvement to the C2P. It is integrated with the C2P(R) via a set of commercial VME processors to provide enhanced, consolidated displays to monitor and analyze multi-TADIL networks graphically. All procurement of CDLMS hardware will include the Satellite-TADIL-J (S-TADIL-J), and the Electronic JTIDS Network Library (EJNL). S-TADIL-J consists of an additional set of cards and cables integrated into the CDLMS chassis, enabling the system to send Link 16 information over satellite, providing range extension beyond the Theater of Operation E-JNL provides pre-defined networks (configurations of ships and aircraft) allowing immediate access to different operational configurations. This minimizes delays for reconfiguring the network when new platforms are introduced to a mission.

#### CLASSIFICATION

GET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			
	Advanced Tactical Data Link System	2614	52DR

CDLMS TECHNOLOGY REFRESH: The CDLMS is comprised of Commercial-Off-the Shelf (COTS) products. Existing processors have become obsolete and no longer available for procurement. In addition, the existing processor's current speed and memory capabilities do not support efficient software performance. The CDLMS Technology Refresh Program will allow fielding of current processing capability to ensure optimum operational performance.

NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT Ship/Shore: The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the ship and shore to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.

MODEL 4 NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) Upgrade: The Model 4 NGC2P Upgrade (DN Link 11/Link 22) upgrades existing Model 4 C2P rehost units to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.

MODEL 4 NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) Backfit: The Model 4 NGC2P Back Fit replaces outdated AN/UYK-43 C2P on Model 4 ships with next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.

LMS-16 (LINK MONITORING SYSTEM): The LMS-16 provides for improved Link 16 network diagnostics, system monitoring and control capabilities. Network performance monitoring by platform and time slot allocation provide critical data to optimize the Link 16 network. Ruggedized LMS-16 hardware/software will allow the operator to analyze the Link-16 network in real-time and adjust network performance to support Theater Air Defense/Theater Missile Defense by Battle Groups and Joint Task Forces.

MIDS ON SHIP (MOS): The Multi-Functional Information Distribution System Low Volume Terminal (MIDS-LVT) is a five nation cooperative program that provides a third generation Link 16 system that satisfies U.S. and allied requirements to exchange tactical information in a digital format across a broad range of sources. Building on JTIDS, MIDS uses the latest technology to reduce system size and weight. It is designed to be readily reconfigurable for different user needs. MOS consists of a MIDS-LVT integrated into a JTIDS type Electronics Cabinet Assembly including a Terminal Controller, High Power Amplifier/Adapter, and Ship Antenna Power Supplies.

JUSTIFICATION OF FY 03 REQUIREMENTS: FY03 funds will be used to procure CDLMS Technology Refresh, Link Monitoring System (LMS-16), MIDS on Ship - Shore and associated production support and training. Funding will be also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for C2P(R)/CDLMS Backfits and LMS-16.

JUSTIFICATION OF FY 04 REQUIREMENTS: FY04 funds will be used to procure C2P(R)/CDLMS Forward Fit, NGC2P Field Change Kit for Ship and Shore, MIDS on Ship -Shore, MIDS on Ship Forward Fit and associated production support and training. Funding will be also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for C2P(R)/CDLMS Backfit.

JUSTIFICATION OF FY 05 REQUIREMENTS: FY05 funds will be used for C2P(R)/CDLMS Forward Fit, NGC2P Field Change Kit Ship/Shore, and MIDS on Ship Shore Production Support. FY05 funds will also be used for Link 16 Alteration Installation Team (AIT) and shipyard installs for NGC2P Field Change Kit for Ship and Shore and MIDS on Ship - Shore.

INSTALLATION AGENT: Space and Naval Warfare Systems Center, San Diego (SSC-SD) and Charleston (SSC-CH).

### CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
PPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	1	SUBHEAD
,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Advanced Tactical Data Link Syste	m 2614	52DR
DEFINITIONS OF COST CODES:			
DR003: AN/UYQ-86 (C2P/C2P(R)/CDLMS): All hardware costs associated with Command and Control Processor (C2P), C2P (CSDTS), Satellite-TADIL-J, Electronic JTIDS Network Library (E-JNL), CDLMS Technology Refresh, Next Generation C2P a		stem (CDLMS), Common Shipboard I	Data Terminal Sets
DR006: LMS-16 (LINK MONITORING SYSTEM): All hardware costs associated with a stand-alone LMS-16 workstation which	n includes monitor, keyboard, associated an	enna and software license agreement.	
DR010: MIDS ON SHIP: All hardware and nonrecurring engineering cost associated with MIDS on Ship High Power Link 16 te devices, High Power Amplifier Group (HPAG), Terminal controller, and all associated ECPs. MOS terminals scheduled to be pro			abinet Assembly, Filtering
DR555: PRODUCTION SUPPORT (AN/UYQ-86): Annualized production support includes evaluation of C2P(R)/CDLMS ECGeneration C2P; and MIDS on Ship production support services and the evaluation of MIDS Engineering Change Proposals (ECP		MS, S-TADIL-J, E-JNL, and CDLMS	Technology Refresh, Next
DR666: TRAINING CURRICULUM: Training Curriculum (end-item) for MIDS on Ship Terminal and Next Generation C2P.			
DR777: INSTALLATION: Link 16 equipment installations into shore and training facilities. Link 16 Alteration Installation Te engineering and integration coordination for the Fleet. Covers AIT ship installs for JTIDS/C2P(R), MIDS/CDLMS, C2P(R)/CDL			g , and installation

## UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS							DATE		February 2004		
APPROPRI	ATION ACTIVITY					P-1 ITEM NO	OMENCLAT	URE			SUBHEAD	
OP,N - BA-2	COMMUNICATIONS AND ELECTRONIC EQUIPMENT					Advanced Tac	tical Data Lin	k Systems 2614	1		52DR	
			PY		FY 2003			FY 2004			FY 2005	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
DR003	AN/UYQ-86 (C2P / C2P (R) / CDLMS) Forward Fit	A					2	558.0	1,116			
DR003	CDLMS Technology Refresh (Field Change Kit) (Note 1)	A		15	23.7	356	2	338.0	1,110			
DR003	NGC2P Field Change Kit Ship (Note 2)	В		15	23.7	350	19	194.5	3,696			
DR003	NGC2P Field Change Kit Shore (Note 2)	В					6	200.0	1,200			
									,			
DR006	Link Monitoring System (LMS-16)	A		2	309.0	618						
DR010	MIDS on Ship Shore	A		2	1,478.0	2,956	2	1,500.0	3,000			
DR010	MIDS on Ship Forward Fit	В					2	1,604.0	3,208			
DR555	Production Support	N/A				268			813			514
DKSSS	1 Toduction Support	11/14				208			813			314
DR666	Training Curriculum	N/A				766			500			
		-										
DR777	Installation	N/A				4,040			2,530			1,872
	Installation of Equipment / Non-FMP											1,202
	Installation of Equipment / FMP					3,521			2,162			276
	DSA					519			368			394
	TOTAL CONTROL					0.004			16.062			2 206
	TOTAL CONTROL					9,004			16,063			2,386

#### DD FORM 2446, JUN 86

Note 1: No installation costs are associated with the CDLMS Technology Refresh (Field Change Kit).

Note 2: The PB 04 budget reflected the procurement of five Interim NGC2P w/DNMFL units in FY 04. Due to the acceleration of Next Generation Command and Control Processor capability into the fleet, stand alone Interim NGC2P units are no longer required. NGC2P Field Change Kits will implement the capability into existing equipment.

# UNCLASSIFIED CLASSIFICATION

PROCUI	REMENT HISTORY AND PLANNING							DATE			Februa	ry 2004
B. APP	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCI	LATURE			SUBHEAD	
OP,N - BA	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT					Advanced Tac	ctical Data Lin	k Systems 261	4		52DR	
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
DR003	AN/UYQ-86 (C2C / C2P (R) / CDLMS) Forward Fit	04	TBD	FFP	TBD	N/A	Apr-04	Oct-05	2	558.0	YES	N/A
DR003	NGC2P Field Change Kit ship	04	TBD	FFP	TBD	N/A	Aug-04	Aug-05	19	194.5	YES	N/A
DR003	NGC2P Field Change Kit shore	04	TBD	FFP	TBD	N/A	Aug-04	Aug-05	6	200.0	Yes	N/A
DR010	MIDS on Ship Shore (Note 1)	03 04	DLS, Inc., Cedar Rapids, IA DLS, Inc., Cedar Rapids, IA	FFP FFP	SPAWAR SPAWAR	N/A N/A	Dec-02 Mar-04	Dec-04 Mar-06	2 2	1,478.0 1,500.0	YES YES	N/A N/A
DR010	MIDS on Ship Forward Fit (Note 1)	04	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Mar-04	Mar-06	2	1,604.0	YES	N/A
REMAR	KS	<u>l</u>						•				

Note 1: For FY04 procurement only. Pending ASN (RD&A) approval of emerging requirements under Navy LRIP Lot 4 decision.

MODIFICATION TITLE:

AN/UYQ-86 (C2P(R)/CDLMS) BACKFIT SHIP INSTALLATIONS

DR003

COST CODE MODELS OF SYSTEMS AFFECTED:

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The C2P(R)/CDLMS equipment performs data link processing functions and provides the interface between the Tactical Digital Information Links (TADILS) and selected shipboard processors. CDLMS provides the ability to graphically display multiple TADIL networks for monitoring and analysis. The purpose of C2P(R)/CDLMS backfits is to upgrade the outdated AN/UYK-43 in the fleet with the new AN/UYQ-86 COTS equipment. CDLMS includes S-TADIL-J and E-JNL. Identified installation costs include S-TADIL-J and E-JNL installations in FY 01.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	_												_								
	. I o. I	PY C	FY	02	<u>FY</u>	03	<u>FY</u>	04	FY 05	FY 06		FY 07		FY		FY	<u>09</u> S	Oty To	<u> </u>	0.	<u>Total</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty :	\$	Qty	\$	Qty	\$	Qty	\$	Qty	5	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	37	0.4 19.9	4	1.9																41	0.4 21.8
Training Equipment Production Support Other (DSA) Interm Contractor Support		0.7 2.0		0.2 0.5		0.2		0.1													0.9 2.8
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP	20 12 8	12.6 7.6 5.0	9 3	4.4 3.8 0.6	5	3.1	4	2.2												41 12 17 8 4	22.2 7.6 8.8 3.7 2.2
FY 02 EQUIP FY 04 EQUIP FY 05 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		12.6		4.4		3.1	4	2.2												4	22.2
TOTAL PROCUREMENT COST	-	35.5		7.0		3.3		2.3													48.1
METHOD OF IMPLEMENTATION:		55.5	1		TRATIVE I		i:	2 MOS	ı	PRODUCTION	LEADTI	IME:		12 MOS							10.1
CONTRACT DATES:	FY 2003:					FY 2004:				FY 2005:											
DELIVERY DATES:	FY 2003:					FY 2004:				FY 2005:											
INSTALLATION SCHEDULE:	PY	_				11	2 <u>FY</u>	3	4	1 :	FY 0:	<u>5</u> 3	4	-	1	2 <u>FY</u>	<u>06</u> 3	4			
INPUT	37					1	1	1	1												
OUTPUT	35					2	1	1	1	1											
INSTALLATION SCHEDULE:	1	2 <u>F</u>	<u>Y 07</u> 3	4	_	11	2 <u>FY</u>	3	4	1 :	FY 09	9 3	4					TC		TOTAL	
INPUT																				41	
OUTPUT																				41	

Notes/Comments

<sup>1.</sup> Total quantity meets inventory objective.

<sup>3.</sup> FY02 costs include C2P upgrade.

MODIFICATION TITLE: AN/UYQ-86 (C2P(R)/CDLMS) FORWARD FIT INSTALLATIONS

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The C2P(R)CDLMS equipment performs data link processing functions and provides the interface between the Tactical Digital Information Links (TADILS) and selected shipboard processors CDLMS provides the ability to graphically display multiple TADIL networks for monitoring and analysis.

The cost of installing C2P(R)/CDLMS is included in the JTIDS terminal installation cost (reflected in P3-A for DR001) for FY 96.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III

FINANCIAL	PLAN:	(\$ in m	illions)

	]	PΥ	FY	02	FY 03	FY 04	FY 05		FY 06		FY 07	FY 08	FY 09	TC		Total	
	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty \$		Qty \$		Qty \$	Qty \$	Qty \$	Qty \$	Qty	,	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	58	58.0				2 1.1									60	5	59.1
Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP	57 57	0.0 0.0	1 1	0.0 0.0		0.1	0.	1	2 0.0						60 58		0.1
PRIOR TREQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP	5/	0.0	1	0.0					2 0.0						2		0.0
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		0.0		0.0	0.0	0.0	0.0	0	0.0		0.0	0.0		0.0			0.0
TOTAL PROCUREMENT COST		58.0	1	0.0	0.0	1.2	0.		0.0		0.0	0.0		0.0			59.2
METHOD OF IMPLEMENTATION:		50.0	ı		TRATIVE LEADTIME		0.		PRODUCTION LE			18 MOS		0.0			7.2
CONTRACT DATES:	FY 2003:				FY 2004:	Apr-0	4		FY 2005:								
DELIVERY DATES:	FY 2003:				FY 2004:	Oct-0:	5		FY 2005:								
INSTALLATION SCHEDULE:	PY	_			1	2 <u>FY 04</u> 3	4	_	1 2	FY 05	3 4	1	2 FY 06 2 3	4			
INPUT	58												1 1				
OUTPUT	58												1	1			
INSTALLATION SCHEDULE:	1	2	3	4	11	2 <u>FY 08</u> 3	4	-	1 2	FY 09	3 4			TC	TOT/		
INPUT															60		
OUTPUT															60		

#### Notes/Comments

- 1. Total quantity meets inventory objective.
- 2. Production leadtime varies between 12 to 18 months. For forward fit ships, JTIDS or MIDS on Ship and UYQ-86(C2P/CDLMS) are installed as a ship set except for command ships. Delivery of forward fit units takes six months longer than those procured into existing suites. This is due to longer integration and testing time at the SPAWAR Systems Center.
- 3. Installation costs are included in the JTIDS (DR001) or MIDS on Ship (DR010) installation costs.

MODIFICATION TITLE: COST CODE MODELS OF SYSTEMS AFFECTED: NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHIP

DR00

MODELS OF SYSTEMS AFFECTED DESCRIPTION/JUSTIFICATION:

The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the ship to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III (NGC2P is a P3I to C2P/CDLMS)

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)			F11.02	F11 02		*****							***	. 0.0			-			
	Oty PY	<u>Y</u> S	FY 02 Oty \$	Oty \$	Qty E	<u>Y 04</u> \$	Otv FY	<u>7 05</u> \$	Qty FY	<u>7 06</u> \$	Qty FY	<u>07</u> \$	Oty FY	<u>08</u> \$	Otv FY	<u>Y 09</u> \$	Oty 1	<u>°C</u> \$	Qty T	otal S
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qiy	J.	Qty 3	Qty 3	Qiy		Qıy		Qiy	J.	Qij	J	Qiy	J	Qiy	Φ	Qty	3	Qty	J.
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data					19	3.7			25	5.2	17	3.7	19	4.2	5	1.2			85	17.9
Training Equipment Production Support Other (DSA) Interm Contractor Support						0.5 0.2 0.3		0.01 0.3		0.2 0.8		0.3 0.6		0.3 0.6		0.1 0.3		0.1 0.0		0.5 1.1 2.8
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 03 EQUIP							3	0.3	16	1.5	25	2.4	17	1.7	19	2.0	5	0.5	85	8.4
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY TC EQUIP							3	0.3	16	1.5	25	2.4	17	1.7	19	2.0	5	0.5	19 25 17 19 5	1.8 2.4 1.7 2.0 0.5
TOTAL INSTALLATION COST								0.3		1.5		2.4		1.7		2.0		0.5		8.4
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			ADMINI	STRATIVE LEADTIMI	g.	4.6 2 MOS	<u> </u>	0.6	DD ODLIC	7.6 TION LEAD	TIME:	7.0	12 MOS	6.8		3.5		0.6		30.7
WETHOD OF INIT LEWENTATION.			ADMINI		Δ,	2 MO3			TRODUC	I ION LEAL	JIIWIE.		12 WO3							
CONTRACT DATES:	FY 2004:		Aug-04	FY 2005:																
DELIVERY DATES:	FY 2004:		Aug-05	FY 2005:																
INSTALLATION SCHEDULE:	PY			1	2 <u>F</u>	Y 04 3	4	_	1	2	7 <u>05</u> 3	4		1	2	<u>Y 06</u> 3	4			
INPUT												3		4	4	4	4			
OUTPUT														3	4	4	4			
		FY			F	Y 08				FY 09 2										
INSTALLATION SCHEDULE:	1	2	3 4	1	2	3	4	_	1	2	3	4					TC	_	TOTAL	
INPUT	7	6	6 6	5	4	4	4		5	5	5	4					5		85	
OUTPUT	4	7	6 6	6	5	4	4		4	5	5	5					9		85	
Notes (Comments																				

Notes/Comments

1. Total quantity meets inventory objective.

NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHORE MODIFICATION TITLE:

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the shore to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link function including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 1

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III (NGC2P is a P31 to C2P/CDLMS)

FINANCIAL PLAN: (\$ in millions)

Notes/Comments

	<u>PY</u>	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TC	<u>T</u>	otal
RDT&E PROCUREMENT:	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
FROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment				6 1.2							6	1.2
Equipment Nonrecurring Engineering Change Orders Data Training Equipment												
Production Support Other (DSA)				0.1	0.1							0.2
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP					6 0.5						6	0.5
FY 02 EQUIP FY 03 EQUIP FY 05 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP					6 0.5						6	0.5
TOTAL INSTALLATION COST					0.5							0.5
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		ADMINIS'	TRATIVE LEADTIME	1.3 2 MOS	0.5	PRODUCTION LEAD	DTIME:	12 MOS				1.8
CONTRACT DATES:	FY 2004:	Dec-03	FY 2005:									
DELIVERY DATES:	FY 2004:	Dec-04	FY 2005:									
INSTALLATION SCHEDULE:	PY		1	2 3	4	1 2 <u>FY</u>	<u>7 05</u> 3 4	1	2 <u>FY 06</u> 3	4		
INPUT							6					
OUTPUT								6				
INSTALLATION SCHEDULE:	1 2 <u>FY</u>	3 4	1	2 <u>FY 08</u> 3	4	1 2 <u>FY</u>	3 4			TC	TOTAL	
INPUT											6	
OUTPUT											6	

MODIFICATION TITLE: LMS-16 LINK MONITORING SYSTEM INSTALLATIONS

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: LMS-16 provides improved Link 16 network diagnostics, system monitoring and control capabilities. Network performance monitoring by platform and time slot allocation provide critical data to optimize the

Link 16 network. LMS-16 are being installed at five NCTSI shore based detachments, one on the USS Stennis, one on the USS Nimitz and one on the USS Enterprise.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	_													
	Otv P	<u>Y</u> §	Oty \$	Oty F	Y 03 \$	FY 04 Oty \$	FY 05 Oty \$	FY 06 Otv \$	Otv \$	FY 08 Oty \$	FY 09 Oty \$	TC Qty \$	Oty	Total S
RDT&E PROCUREMENT: KIT Quantity Installation Kits	Qty	3	Qiy 5	Qty		Qty \$	Qty 5	Qiy s	Qty \$	Qiy \$	Qty \$	Qty \$	Qiy	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	6	2.4		2	0.6								8	3.0
Training Equipment Production Support Other (DSA) Interm Contractor Support		0.1			0.1 0.3									0.2 0.3
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP	1	0.1		2	0.4								3	0.6
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 06 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP		0.1		2	0.4								2	0.4
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.1 2.7			0.4 1.5	*****		DR OPLICATION AND A						0.6 4.2
METHOD OF IMPLEMENTATION:			ADMINIS	STRATIVE	LEADTIME	: 2 MOS		PRODUCTION LEA	ADTIME:	6 MOS				
CONTRACT DATES:	FY 2003:	Dec-02	2		FY 2004:			FY 2005:						
DELIVERY DATES:	FY 2003:	Dec-02	2		FY 2004:			FY 2005:						
INSTALLATION SCHEDULE:	PY				1	2 <u>FY 04</u> 3	4	1 2 <u>F</u>	3 4	1	2 <u>FY 06</u> 3	4		
INPUT	3													
OUTPUT	3													
INSTALLATION SCHEDULE:	1	<u>FY</u>	<u>Y 07</u> 3 4	_	1	<u>FY 08</u> 2 3	4	1 2 <u>F</u>	<u>YY 09</u> 3 4	_		TC	TOTAL	
INPUT													3	
OUTPUT													3	

#### Notes/Comments

<sup>1.</sup> Total quantity meets inventory objective.

<sup>2.</sup> NCTSI is funding the installation costs for the five LMS 16 units being installed at NCTSI detachments.

MODIFICATION TITLE: MIDS ON SHIP SHORE INSTALLATIONS COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant.

MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost. Installation of MIDS on Ship at a shore installation (training site) does not require the installation of the associated antenna.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 03 - LRIP 3/FY 04 - MS III

CINIANCIAL	DI.	2) - IA A	in milli	one)

FINANCIAL PLAN: (\$ in millions)	PY	,	FY 02	FY	7 03	E,	Y 04	FY	.05	EX	Y 06	FY	07	FY	08	FY	.00	T	C	7	<u>'otal</u>
	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	s l	Qty	s I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																					
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data				2	3.0	2	3.0													4	6.0
Training Equipment Production Support Other (DSA) Interm Contractor Support					0.8 0.2		0.3		0.4		0.2										0.8 1.1
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP								2	0.8	2	0.9									4	1.6
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY TC EQUIP								2	0.8	2	0.9									2 2	0.8
TOTAL INSTALLATION COST									0.8		0.9										1.6
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			ADMINIS	TRATIVE I	3.9 LEADTIME	<u>.</u> 3:	3.3 2 MOS		1.2	PRODUC	1.1 TION LEAI	OTIME:		24 MOS							9.4
CONTRACT DATES:	FY 2003:		Dec-02		FY 2004:		Mar-04			FY 2005:											
DELIVERY DATES:	FY 2003:		Dec-04		FY 2004:		Mar-06			FY 2005:											
INSTALLATION SCHEDULE:	PY				11	2	Y 04 3	4		1	2 <u>FY</u>	7 <u>05</u> 3	4	<u>-</u>	1	2 <u>FY</u>	3	4			
INPUT											2						2				
OUTPUT												2						2			
INSTALLATION SCHEDULE:	1	<u>FY</u>	<u>7 07</u> 3 4		1	2 <u>F</u>	<u>Y 08</u>	4		1	<u>FY</u>	<u>7 09</u> 3	4					TC		TOTAL	
				-					•					•					•		
INPUT																				4	
OUTPUT																				4	

Notes/Comments

1. Total Quantity meets inventory objective.

MODIFICATION TITLE: MIDS ON SHIP FORWARD FIT INSTALLATIONS

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant.

MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost.

Shipboard installation of MIDS on Ship requires an AS-4127A and an AS-4400 antenna set.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MS III

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																		_	_		
	Oty PY	s	FY 02 Qty \$	Qty FY	93 \$	Oty F	<u>Y 04</u> S	FY Qty	05 S	Qty FY	<u>06</u> \$	Otv FY	<u>7 07</u> S	Oty FY	<u>08</u> \$	Qty	<u>7 09</u> S	Qty T	<u>c</u> s I	Qty	<u>Γotal</u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	2	Qty \$	Qty	2	Qty		Qty	3	Qty	\$	Qty	3	Qty	\$	Qty	3	Qty	2	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data						2	3.2													2	3.2
Training Equipment Production Support Other (DSA) Interm Contractor Support							0.2		0.1		0.0										0.2 0.2
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP										2	1.7									2	1.7
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 17 EQUIP										2	1.7									2	1.7
TOTAL INSTALLATION COST											1.7										1.7
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:			A DMINIE	TRATIVE L	EADTIME		3.4 2 MOS		0.1	PRODUCT	1.7	TIME:		24 MOS							5.2
METHOD OF IMPLEMENTATION.			ADMINIS	IKATIVEL	EADTIME		2 MO3			rkoboci	ION LEAL	JIIVIE.		24 MOS							
CONTRACT DATES:	FY 2004:		Mar-04		FY 2005:																
DELIVERY DATES:	FY 2004:		Mar-06		FY 2005:																
INSTALLATION SCHEDULE:	PY			-	1	2 <u>F</u>	<u>Y 04</u> 3	4		1	2 <u>FY</u>	<u>7 05</u> 3	4	_	1	2 <u>FY</u>	<u>7 06</u> 3	4			
INPUT																	2				
OUTPUT																		2			
		FY	07			F	Y 08				FY	7 09									
INSTALLATION SCHEDULE:	1	2	3 4		1	2	3	4		1	2	3	4	-				TC		TOTAL	
INPUT																				2	
OUTPUT																				2	

#### Notes/Comments

1. Total Quantity meets inventory objective.

<sup>2.</sup> MIDS on Ship and AN/UYQ-86 (C2P/C2P(R)/CDLMS) are installed as a ship set.

	CLASSIFICATION																														ln.	A TETE							
									P	ROI	UC'	ГΙΟ	N SC	СНЕ	EDU	LE															D	ATE			Feb	oruary	2004		
																									(1	DOD	EXH	IBIT	P-21	)									
	RIATION/BUDGET ACTIVITY													]	P-1 I	ГЕМ М	NOM	ENC	LATU	RE													SU	BHE	EAD N				
OP,N - B	A-2 COMMUNICATIONS AND ELECTRONIC EQUIP	MENT																															Ш.		52D				
			s		ACCEP	BAL				FIS	CAL Y			04							FIS	CAL Y			5							FIS	SCAL			06			
	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE		03			_	_	AR YEA	ıR		04			04	_		_		AR YE	\R	0:	5			05			_	_	DAR Y	_		06	
CODE			R	QTY	то	AS OF	О	N D				A		J	J					D J	F			M	J		A		-				M		A M	J			S
			v		1-Oct	1-Oct		O E					A V	U	U				0 1		E	A								o		A E			P A				E
		FY					Т	V C	N	i B	R	R	Y	N	L	G	P	T	V (	C N	i B	R	R	Y	N	L	G	P	T	v	С	N B	R	R	R Y	N	L	G	P
DP003	AN/UYQ-86 (C2P/C2P(R)/CDLMS) Forward Fit	04	1	2		2			+	-	1	Α	<del>}</del>	-			+	$\dashv$	-	+	+	+-	1	<b>-</b>	-	+	-	-	1	1	-	+	+	+	+	+	⊢	$\vdash$	_
DROOS	ATV 0 T Q-60 (C217C21 (R)/CDEMS) T 01 waitd T it	04	+-						+	+	1	А	1	-			-	$\dashv$	+	+	+	+			+	+		-	-	1		+	+	+	+	+	$\vdash$	$\vdash$	_
DR003	NGC2P Field Change Kit Ship	04		19		19										Α											1	2	1	1	2	1 1	. 2	1	1	2	1	1	2
																																		Ш					
DR003	NGC2P Field Change Kit Shore	04	-	6		6			-							Α	_			-	_			<del></del>		_	3	3				+	_	+	+	+-	_	$\vdash$	
DR010	MIDS on Ship Shore	03		2		2			+	-	1								-	1 1						-					-	+	+	+	+	+	H	$\vdash$	_
	•	04		2		2					Α																					工	1	1	1	丄			
DR010	. MIDS on Ship Forward Fit	04	1	2		2			+		Α.							_		-	_			$\vdash$	_	_		_	_			+	+	+	+	+	-	$\vdash$	_
DROTO	MIDS on Sinp 1 of ward 1 it	0-1		-							- 11							-		_						_		-				+	+	Ť	+	+	$\vdash$		_
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							OCT	NOV DE	C JA	N FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP (	OCT	NOV D	EC JA	N FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC J	AN FEI	B MAE	R AP	PR MAY	JUN	JUL	AUG	SEP

		I	PRODUCTION RATE	ī.		PROCUREMEN	T LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
AN/UYQ-86 (C2P/C2P(R)/CDLMS) Forward Fit	TBD		1-8-5		18 months					
NGC2P Field Change Kit Ship	TBD		1-8-5		12 months					
NGC2P Field Change Kit Shore	TBD		1-8-5		12 months					
MIDS on Ships Shore	DLS, Inc. Cedar Rapids, IA	1	1-8-5	4	24 months					
MIDS on Ships Forward Fit	DLS, Inc. Cedar Rapids, IA	1	1-8-5	4	24 months					

## CLASSIFICATION: UNCLASSIFIED

			<b>BUDGET ITE</b>	M JUSTIFIC	ATION SHEE	T			DATE:			
											Februa	ry 2004
APPROPRIATION/BU	DGET AC	TIVITY					P-1 ITEM NOW	MENCLATURE				
OTHER PROCUR	EMENT,	NAVY	BA-2: COM	MUNICATIO	ONS/ELECTR	ONICS	MIM	NESWEEPIN	G SYSTEM F	REPLACEME	NT/262200/7	2LV
Program Element for C	Code B Iter	ns:					Other Related I	Program Eleme	nts			
	06035	02N					PE 0204302	N				
	ID	Prior									То	
	Code	Years		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY												
EQUIPMENT COST												
(In Millions)	Α	N/A		\$0.1	\$18.2	\$78.0	\$112.2	\$54.6	\$36.2	\$22.4	CONT.	CONT.
SPARES COST												
(In Millions)	Α	N/A		\$0.6	\$1.7	\$9.3	\$8.9	\$5.0	\$1.2	\$0.0	CONT.	CONT.

#### PROGRAM DESCRIPTION/JUSTIFICATION:

Provide systems, subsystems, and engineering change kits for minehunting, navigation, and tactical display operations by the surface MCM force. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with operational requirements.

Remote Minehunting System (RMS) (LV064): The AN/WLD-1(V)1 system will consist of Remote Minehunting Vehicle (RMV), Variable Depth Sensor (VDS, AN/AQS-20), and shipboard equipment consisting of a Command Control Combat System, Launch and Recovery System, radio antennas and support equipment. The AN/AQS-20 is specifically designed for the detection, classification, and localization of subsurface mines.

MCM/MHC Propulsion Improvement Program (LV072): This program is critical to correct design deficiencies, improve the Mean Time Between Failure for increased ship operational availability, and improve Reliability and Maintainability.

MCM/MHC Integrated Ship Control System (ISCS) (LV073): This program replaces the existing MHC Machinery Control System, which will bring all MHC ships to a common configuration and funds software integration upgrades to the MCM-1 class ships.

Force Protection Equipment (LV074): Provides Force Protection equipment for sailors to conduct maritime interdiction operations.

P-1 SHOPPING LIST

ITEM NO. 51 PAGE NO. 1

CLASSIFICATION:

**UNCLASSIFIED** 

DD Form 2454, JUN 86

## CLASSIFICATION: UNCLASSIFIED

	BUDGET ITEM JUSTIFICATION SHEET		DATE:
	P-40 CONTINUATION		February 2004
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY	BA-2: COMMUNICATIONS / ELECTRONICS	MINESWEEPIN	G SYSTEM REPLACEMENT/ 262200/72LV

ITEM DESCRIPTION / JUSTIFICATION (CONTINUED):

Mine Countermeasures Combat System Upgrades (LV075): The MCM Combat System Upgrades program will consist of a series of incremental upgrades to the current combat system via Engineering Change Kits. The upgrades will improve reliability and maintainability and correct deficiencies to allow the equipment to perform in accordance with operational requirements. The current planned upgrades include:

- -Acoustic Sweep Replacement replace the TB-26 and TB-27 with the Advanced Acoustic Generator (AAG) to solve obsolesence problems, reduce aft deck weight and improve performance.
- -AN/SQQ-32 Sonar Data Recorder upgrade the minehunting sonar on MCM ships, which will provide the capability to record, playback, and display, detect and classify data for sonar contact recognition training.
- MCM Communication Upgrade upgrade and modernization of the communications systems for MCM ships.
- Supportability Engineering Changes upgrade and modernization of the combat systems upgrade to reduce emergent obsolesence and supportability issues such as OK520 HPU, SQQ-32 touch panel, SLQ-48 PDU, and Mine Countermeasure Navigation Command and Control (NAVCC) upgrade.

Items to procured in FY 03: MCM Combat System Upgrades consisting of the following changes: SQQ-32 ECP for the replacement of obsolete touch panel.

Items to be procured in FY 04: MCM Combat System Upgrades consisting of the following changes: Acoustic Sweep Upgrade - 1 system; OK-520 HPU upgrade ECP - 4 systems, NAVCC upgrade ECP-1 system.

Items to be procured in FY05: MCM Combat System Upgrades consisting of the following changes: Acoust Sweep Upgrades - 1 system; OK-520 HPU upgrade ECP - 4 systems; SQQ-32 Sonar Data Recorder - 15 systems; Communications upgrade - 3 systems, NAVCC upgrade ECP-1 system; 2 Remote Minehunting Vehicles; 2 Variable Depth Sensors (VDS)

\*LV075 encompasses the old cost codes LV066, Integrated Combat Weapon System; LV069, Australian Accoustic Generator; LV070, AN/SQQ-32 Sonar Data Recorder; and LV071, MCM-1 Communications Upgrade

Code "B" Items: RMS Systems, PE 0603502N

Planned
DT Assist 4th QTR FY 02 / 1st QTR FY03

Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

P-1 SHOPPING LIST

CLASSIFICATION:

6 ITEM NO. 51 PAGE NO. 2

**UNCLASSIFIED** 

DD Form 2454, JUN 86

CLASSIFICATION:

## **UNCLASSIFIED**

	WEAPONS SYSTEM CO P-5	ST ANAI	LYSIS			Weapon S	ystem							DATE: Februai	y 2004
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD	)					_
	rocurement, Navy					•	AUNIEONA/		OTEM DEF		NIT/OCCOO	(70L)/			
BA-2: C	OMMUNICATIONS / ELECTRONICS		TOTAL COS	T IN THOUS	SANDS OF DO	LARS	MINESW	EEPING ST	SIEWIKER	LACEME	NT/262200/	/2LV			
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2003			FY 2004			FY 2005	
			Total Cost				Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	MINE WARFARE, N752														
LV064	REMOTE MINEHUNTING SYSTEM (RMS)												4	11,677	46,708
LV072	MCM/MHC PROPULSION IMPRV. PROG.,	А										<u>5,338</u>			<u>13,909</u>
	- MCM									1	1,414	1,414	7	1,410	9,870
	- SUPPORT											3,924			4,039
LV073	MCM/MHC INTEGRATED SHIP CONT SYS	А										<u>2,953</u>			<u>649</u>
	- MSCS									1	2,600	2,600			0
	- SOFTWARE INTEGRATION											353			649
LV074	FORCE PROTECTION EQUIPMENT	А										822			0
LV075	MCM COMBAT SYSTEMS UPGRADES						Var	Var	113	Var	Var	8,226	Var	Var	13,857
LV830	PRODUCTION ENGINEERING											<u>420</u>			<u>2,467</u>
	- RMS											0			1,854
	- MCM COMBAT SYS											420			613
LV900	CONSULTING SERVICES											<u>429</u>			<u>366</u>
	- MCM COMBAT SYS											429			366
			_												
TOTAL			0						113			18,188			77,956

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 51

PAGE NO. 3

CLASSIFICATION:

### **UNCLASSIFIED** CLASSIFICATION:

<b>BUDGET PROCUREM</b>	ENT HISTO	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
								Fe	bruary 2004	
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, N BA-2: COMMUNICATION	•	CTRONICS				ING SYSTEM REPLACE	MENT/26		72LV	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	REVISIONS AVAILABLE
FISCAL YEAR 03 LV075 MCM Comb Sys	VAR*	VAR*	NAVSEA/ NSWC CRANE/ DAHL/ CSS	N/A	WR	VARIOUS	VAR**	VAR**	YES	11/02
FISCAL YEAR 04 LV072 Prop. Imprv. Prog. LV073 MSCS LV075 MCM Comb Sys	1 1 VAR*	1414 2600 VAR*	NAVSSES, PHIL NAVSSES, PHIL. NAVSEA/ NSWC CRANE/ CSS/NAWC	N/A N/A N/A	WR/RC WR/RC WR	NAVSSES, PHIL. NAVSSES, PHIL. VARIOUS	11/03 11/03 VAR**	6/04 6/04 VAR**	YES YES NO	11/03 11/03 11/03
FISCAL YEAR 05 LV064 RMS LV072 Prop. Imprv. Prog. - MCM LV075 MCM Comb Sys	4 7 VAR*	11677 1410 VAR*	TBD NAVSSES, PHIL. NAVSEA/ NSWC CRANE/ CSS/NAWC	TBD N/A N/A	TBD WR/RC WR	TBD NAVSSES,PHIL. VARIOUS	TBD 11/04 VAR**	TBD 6/05 VAR**	NO YES NO	11/04 11/04 11/04

### D. REMARKS

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

**UNCLASSIFIED** ITEM NO. 51 PAGE NO.

SEE SYSTEM DESCRIPTION ON P-40 FOR MORE DETAILS

<sup>\*\*</sup> Dates of award and delivery vary based on when ECPs are submitted and approved.

FY 2004/05 BUDGET PRODU APPROPRIATION/BUDGET A	CTIVITY	/	DULI	E, P-2	1								Wea	apon	Sys	tem			ITE		OME		LAT	URI	=					
OTHER PROCUREMEN	T, NAV	Υ																	esw	eepi	ng S	Syste	em F	Repla	acen	nent/	262	200/	/72L	V
			• •			<u> </u>	Proc	ducti	ion F	Rate					t Lea												1			
Maria	Ι.		nufacti		_	N 4	<u></u>			N 4	A \/		T Pi			T At			Initia			eord			T-4-				it of	
Item		vame	and L	ocatio	n	IVI-	SR	1-6	3-5	IVI	٩X	to	Oct	. 1	(	Oct '	l	IVI	fg Pl	LI	IVI	fg P	LI		Tota	ll .		Mea	asure	<u>e</u>
LV064 RMS	TBD	0050	DIIII			4		4		4								7			_			00				<del></del>		
LV072 PROP IMPR PROG		SSES				1		1		1								7			7			23			EA(			
LV073 MSCS	NAV.	SSES	, PHIL	•		1		1		1								7			7			9			EAG	JH_		
		•																												_
	F S Q D B 2001 CALENDAR YEAR 2002												_	FIS		'EAR						Ļ								
ITEM / MANUFACTURER	F	S	Q	D	В		2001					(	CALE	NDAR	YEAF	200	2						CA	LENE	AR Y	EAR 2	003			1
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										FISC	CAL Y	EAR :	2004									FISO	CAL Y	ÆAR	2005					H
ITEM / MANUFACTURER	F	s	Q	D	В		2003					(	CALE	NDAR	YEAF	200	4						CA	LENE	AR Y	EAR 2	005			1
	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N O L	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	1
LV072 PROP IMPR - MCM	04	N	1	0	1		Α							1																(
LV073 MSCS	04	N	1	0	1	<b>I</b> —	Α							1														<del>                                     </del>		(
LV064 RMS (TBD) LV072 PROP IMPR - MCM	05 05	N N	7	0	7														Α							7				
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DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311 / 244 ITEM NO 51 PAGE 5 Exhibit P-21 Production Schedule

#### CLASSIFICATION

BUDGET ITEM	/ JUSTIFIC	ATION SHEET					DATE		Februa	ry 2004
APPROPRIATION/BU OP,N - BA2 COMMUN			IENT		P-1 ITEM NOM NAVSTAR GPS				SUBHEAD 521R	
		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$11.4	\$15.5	\$11.7	\$13.2	\$12.5	\$12.8	\$13.0	Cont.	Cont.

PROGRAM COVERAGE: Navigation Sensor System Interface (NAVSSI) is a surface based system that integrates shipboard navigation signals and distributes the processed output to user systems and networks. NAVSSI provides position, velocity, time and almanac data to onboard command and control systems in real time with Global Positioning System (GPS) as the primary source of navigation data. The navigation team uses an automated work station that includes automated planning functions and the use of Digital Nautical Charts (DNC). NAVSSI uses Non-Developmental Item (NDI) hardware and a combination of commercial off the shelf (COTS) and newly developed software. The GPS VME (Versa Module Europa) Receiver Card (GVRC) replaces the 13 card GPS receiver with a single card and is hosted within NAVSSI. A subset of the NAVSSI program is NAVSSI Lite, which provides electronic charting capability to vessels not requiring the full NAVSSI system.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Procurement and installation of Navigation Sensor System Interface (NAVSSI) are required to provide Global Positioning System (GPS) and other navigation sensor data to ship-board C4ISR, Combat, and Weapons Systems. NAVSSI enables utilization and display of electronic chart products. NAVSSI is the only available system that performs the full functions of collection, integration, and distribution of navigation data. Common charting and precision navigation data are required to allow a common and correlated ship-to-ship tactical and operational picture. NAVSSI ensures precise Strike and Theater Ballistic Missile Defense (TBMD) weapon systems to have the necessary navigational data. Failure to procure and install NAVSSI would result in loss of critical navigation data required by Combat and Weapons Systems.

FY 04 funding procures 9 NAVSSI systems and 9 RTS/DCS retrofit kits and installation of 9 NAVSSI systems and 8 RTS/DCS retrofits. FY 05 funding procures 5 NAVSSI systems and 3 RTS/DCS retrofit kits and installation of 6 NAVSSI systems, and 4 RTS/DCS retrofits.

Installations are being done for each class/ship through the preparation of ship alteration proposals and ship alteration records. Installation Agent: Installation teams and/or overhaul - to be determined for each ship during execution.

#### CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	NAVSTAR GPS BLI 2657		521R

PROGRAM COVERAGE: The Naval Research Advisory Committee (NRAC) GPS Vulnerability Study Panel tasked by OPNAV N6 and ASN(RD&A), assessed the Navy's GPS Vulnerabilities and recommended specific actions to resolve serious issues to ensure the continued availability of GPS information in a high risk hostile jamming environment. As a result, OPNAV N633 (now N611) and N880 (now N78) drafted the Navy Enhanced GPS User Equipment ORD to address operational requirements. These were validated and the ORD was approved on June 7, 2000. With this beginning, OSD directed the first phase of the Navy's overall GPS upgrade program with RDT&E leading to initial OPN procurements of GPS anti-jam antennas beginning in 2002 for ships. RDT&E continues to support platform integration requirements, DT/OT, and Anti Jam (AJ) solutions for submarines. An ACAT III program was established for Sea NAVWAR and this combined with the Navy Enhanced GPS User Equipment ORD have become the basis for the Navy's Sea NAVWAR program.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Procurement and installation anti-jam GPS user equipment and prevention equipment is required to ensure the continued utility of GPS signals from space in a hostile jamming environment. The NAVWAR program will equip selected ships and submarines with anti-jam GPS antennas and other GPS Modernization enhancements to ensure the continued availability of GPS to support surface and subsurface combat operations and provide reliable GPS and other navigation sensor data to ship-board C4ISR, Combat, and Weapons Systems. Failure to procure and install NAVWAR anti-jam antennas on the above platforms would result in the potential loss of critical GPS information resulting in serious impact on platform combat mission effectiveness.

FY04 will continue with the procurement of 38 GAS-1 systems with groundplanes and the installation of 17 units. FY05 will continue with the procurement of 27 GAS-1 systems with groundplanes and the installation of 38 units.

Installations are being done for each class/ship through the preparation of ship alteration proposals and ship alteration records. Installation Agent: Installation teams and/or overhaul - to be determined for each ship class during execution.

										DATE				
	COST ANALYSIS												Febru	ary 2004
	ATION ACTIVITY						P-1 ITEM N		URE			SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT	1					NAVSTAR GF		AL COS	T IN THOUS		521R	•	
							FY 2003		AL COS	FY 2004		JULLAR	S FY 200	5
COST		ID		1			UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE				QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
1R555	Production Support NAVSSI FMP	Α						857			448			509
	Production Support NAVSSI Retrofit	A						297			454			80
	Production Support NAVSSI Lite	A						285						
	Production Support NAVWAR	A						35			765			804
4D000	NAVCCI EMP					4	<b>5</b> 20	0.454		405	2.700	_	405	2.225
1R009	NAVSSI FMP	A				4	538	2,151	6	465	2,790	5	465	2,325
	NAVSSI - Schools	A				3	250	750	3	250	750			
1R011	NAVSSI - Retrofit	Α				4	138	553	9	200	1,800	3	175	525
1R012	NAVSSI - Land Based Test Upgrades	Α							1	500	500			
1R013	NAVWAR	Α				17	49	840	38	85	3,230	27	90	2,430
1R015	NAVSSI Lite	Α												
1R777	Installation							5,668			4,782			4,977
	Install - NAVSSI FMP	Α						1,660			2,372			2,195
	Install - Design Service Agent (NAVSSI FMP)	Α						114			443			389
	Install - NAVSSI Retrofit	Α						1,113			725			315
	Install - Design Service Agent (NAVSSI Retrofit)	Α						430			17			
	Install - NAVSSI Lite	Α						1,320						
	Install - Design Service Agent (NAVSSI Lite)	Α						173						
	Install - NAVSSI Schools	А						90			260			
	Install - NAVWAR	Α						672			678			1,558
	Install - Design Service Agent (NAVWAR)	A						96			287			520
	TOTAL							11,436			15,519			11,650
								,			,			,
Remarks:		1												
	11 Unit cost is the average cost of retrofit hardware on different classes of ships. Starting in FY 02 m	•								•				
	3 The baseline GAS-1 procurement is a combined Navy OPN/APN buy with unit price being determine				d. Unit co	st per y	ear also reflect	s multiple har	dware co	onfigurations.	FY04 begins p	orocureme	ent	
of 2 Ground	I Plane Assemblies per ship (several classes) and the Fiber Optic Antenna Link and GAS-1	to GVRC/I	NAVSSI inf	erface.										

# UNCLASSIFIED CLASSIFICATION

										A. DATE		
PRO	CUREMENT HISTORY AND PLA	ANNING									Februa	ry 2004
B. AP	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCL	ATURE			SUBHEAD	
OP,N - E	BA2 COMMUNICATIONS & ELECTRONIC EQ	UIPMENT				NAVSTAR G	SPS BLI 2657				521R	
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
1R009	NAVSSI	03 04 05	Various Various Various	WX/RCP WX/RCP WX/RCP	Various Various Various	Various Various Various	Nov-02 Nov-03 Nov-04	Mar-03 Mar-04 Mar-05	7 9 5	538,000 465,000 465,000	Yes Yes Yes	
1R011	NAVSSI - Retrofit	03 04 05	Various Various Various	WX/RCP WX/RCP WX/RCP	Various Various Various	Various Various Various	Nov-02 Nov-03 Nov-04	Mar-03 Mar-04 Mar-05	4 9 3	138,000 200,000 175,000	Yes Yes Yes	
1R013	NAVWAR Hardware	03 04 05	Various Various Various	FFP FFP FFP	GPS JPO/SSC-SD GPS JPO/SSC-SD GPS JPO/SSC-SD	Nov-02	Aug-03 Mar-04 Nov-04	Jan-04 Oct-04 Oct-05	17 38 27	49,000 85,000 90,000	Yes Yes Yes	May-03

### D. REMARKS

1R009 - FY 03 includes 3 school units at a unit cost of \$250K each. FY04 includes 3 schools at a unit cost of \$250K each.

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI FMP February 2004

COST CODE

MODELS OF SYSTEMS AFFECTED:

All models of ships will have NAVSTAR GPS DESCRIPTION/JUSTIFICATION:

The NAVSTAR Global Positioning System (GPS) is a joint Service Program which will provide advance satellite positioning. The ultimate system will consist of a constellation

of satellites, control/tracking network, and user equipment installed aboard a variety of airborne, shipborne and land-based platforms.

With the advent of Over the Horizon - Targeting (OTH-T), it is imperative that all ships continuously know their geographic position to correlate sensor data and prevent escort

ships from becoming unwilling targets. To meet this need, the Navigation Sensor System Interface (NAVSSI) program was initiated. NAVSSI will

distribute position, velocity, time and almanac data to onboard command and control and combat systems in real time with GPS as the primary source of navigation data.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	Prior Y	<u>rs</u>					FY	03	<u>F)</u>	<u>′ 04</u>	<u>F\</u>	<u>/ 05</u>	FY	06	FY	07	FY	08	<u>F</u>	<u> </u>	<u>TC</u>		Tot	<u>al</u>
	Qty	\$					Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																								
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	103	28.5					4	2.2	6	2.8	5	2.3	5	2.3	7	3.3	5	2.3	4	1.9			139	45.6
Production Support Other (DSA) Interim Contractor Support		5.4 1.8						0.9 0.1		0.4 0.5		0.5 0.4		0.3 0.4		0.3 0.3		0.3 0.2		0.2 0.1				8.3 3.8
Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP	101 101	23.5 23.5					4 2 2	1.7 0.8 0.9	6	0.8	6	2.2	6	2.2	7	2.5	5	1.9	4	1.6			139 101 0 2 4	38.0 23.5 0.0 0.8 1.7
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP									4	1.6	2 4	0.7 1.5	1 5	0.4 1.8	7	2.5	5	1.9	4	1.6			6 5 7 5 4 0	2.3 1.9 1.8 2.5 1.9 1.6 0.0
TOTAL INSTALLATION COST		23.5				0.0		1.7		2.4		2.2		2.2		2.5		1.9		1.6	0	.0		38.0
TOTAL PROCUREMENT COST		59.2				0.0		4.9		6.1		5.4		5.2		6.4		4.7		3.8	0	.0		95.7
METHOD OF IMPLEMENTATION:												ADMINIS	TRATIV	'E LEAD	-TIME:	1			PROD	UCTION	LEAD-TIME:		4	
		RACT D			FY 2003		Nov-02			FY 2004		Nov-03			FY 2005		Nov-04							
	DELIV	ERY DA	ATES:		FY 2003	3:	Mar-03			FY 2004	ł:	Mar-04			FY 2005		Mar-05							
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>04</u> 3	4		1	2	<u>FY 05</u>	4		1	2 2	<u>/ 06</u> 3	4								
INPUT	105	_	2	2	1	1		2	2	1	1	_	1	2	2	1	-							
OUTPUT	105		2	2	1	1		2	2	1	1		1	2	2	1								
INSTALLATION SCHEDULE:		-	1	<u>FY 07</u>	3	4		1	<u>FY 08</u> 2	3	4	_	1	2 2	<u>/ 09</u> 3	4	<u>-</u>				TC		<u>TOTAL</u>	
INPUT			0	3	2	2		0	2	2	1		0	2	1	1					0		139	
OUTPUT			0	3	2	2		0	2	2	1		0	2	1	1					0		139	
Notes/Comments																								

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI Retrofit

COST CODE 1R

1R011

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

All models of ships will have NAVSTAR GPS

The NAVSTAR Global Positioning System (GPS) is a joint Service Program which will provide advance satellite positioning. The ultimate system will consist of a constellation

of satellites, control/tracking network, and user equipment installed aboard a variety of airborne, shipborne and land-based platforms.

With the advent of Over the Horizon - Targeting (OTH-T), it is imperative that all ships continuously know their geographic position to correlate sensor data and prevent

escort ships from becoming unwilling targets. To meet this need, the Navigation Sensor System Interface (NAVSSI) program was initiated. NAVSSI will

distribute position, velocity, time and almanac data to onboard command and control and combat systems in real time with GPS as the primary source of navigation data.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(,	Prior Y						FY			<u>′ 04</u>	_	Y 05		06	FY		FY			<u>′ 09</u>	Ι		To	tal
RDT&E	Qty	\$					Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring Equipment	48	2.7					4	0.6	9	1.8	3	0.5	5	1.0	2	0.4	7	1.4	10	2.0	11	2.2	99	12.6
Equipment Nonrecurring	40	2.1					4	0.0	9	1.0	3	0.5	3	1.0		0.4	,	1.4	10	2.0	- ' '	2.2	99	12.0
Engineering Change Orders																								
Data																								
Training Equipment Production Support		2.4						0.3		0.5		0.1		0.2		0.1		0.1		0.4		0.4		4.5
Other (DSA)		1.0						0.4		0.0		0.0		0.0		0.0		0.0		0.0		0.4		1.4
Interim Contractor Support																								
Installation of Hardware	46 46	2.6					6	1.1	8	0.7	4	0.3	5	0.4	2	0.2	7	0.5	10	0.8	11	0.9	99	7.5
PRIOR YR EQUIP FY 01 EQUIP	46	2.6																					46 0	2.6 0.0
FY 02 EQUIP							2	0.3															2	0.3
FY 03 EQUIP							4	8.0															4	0.8
FY 04 EQUIP FY 05 EQUIP									8	0.7	1 3	0.1 0.2											9	0.8 0.2
FY 06 EQUIP											3	0.2	5	0.4									5	0.2
FY 07 EQUIP															2	0.2							2	0.2
FY 08 EQUIP																	7	0.5	40				7	0.5
FY 09 EQUIP FY TC EQUIP																			10	8.0	11	0.9	10 11	0.8
TOTAL INSTALLATION COST		2.6		0.0		0.0		1.1		0.7		0.3		0.4		0.2		0.5		0.8		0.9		7.5
TOTAL PROCUREMENT COST		8.7		0.0		0.0		2.4		3.0		0.9		1.6		0.7		1.9		3.2		3.5		26.0
METHOD OF IMPLEMENTATION:												ADMINIS	SIRAIIV	'E LEAL	) I IME:	1			PRODU	JCTION	LEADTI	ME:	4	1
	CONT	RACT E	DATES:		FY 200	3:	Nov-02			FY 2004	i:	Nov-03			FY 2005	5:	Nov-04							
	DELIV	ERY DA	ATES:		FY 200	3:	Mar-03			FY 2004	k:	Mar-04			FY 2005	5:	Mar-05							
				FY	04					FY 05				E)	Y 06									
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4	_	1	2	3	4	•							
INPUT	52		0	3	3	2		1	1	1	1		0	2	2	1								
OUTPUT	52		0	3	3	2		1	1	1	1		0	2	2	1								
INSTALLATION SCHEDULE:			1	FY 07 2	3	4		1	FY 08 2	3	4		1	2 <u>F`</u>	<u>Y 09</u> 3	4					TC		TOTAL	
INPUT			0	1	1	0	· -	0	3	2	2	-	0	4	3	3	•			•	11	•	99	
OUTPUT			0	1	1	0		0	3	2	2		0	4	3	3					11		99	
Notes/Comments																								

February 2004

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI Schools February 2004

COST CODE

MODELS OF SYSTEMS AFFECTED:

All models of ships will have NAVSTAR GPS

DESCRIPTION/JUSTIFICATION: The NAVSTAR Global Positioning System (GPS) is a joint Service Program which will provide advance satellite positioning. The ultimate system will consist of a constellation

FY 03

of satellites, control/tracking network, and user equipment installed aboard a variety of airborne, shipborne and land-based platforms.

FY 04

With the advent of Over the Horizon - Targeting (OTH-T), it is imperative that all ships continuously know their geographic position to correlate sensor data and prevent escort

ships from becoming unwilling targets. To meet this need, the Navigation Sensor System Interface (NAVSSI) program was initiated. NAVSSI will

distribute position, velocity, time and almanac data to onboard command and control and combat systems in real time with GPS as the primary source of navigation data.

FY 05

FY 06

FY 07

FY 08

FY 09

TC

Total

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Prior Yrs

FINANCIAL PLAN: (\$ in millions)

	PHOL TIS					FY			<u>Y 04</u>		<u> 7 05</u>	<u>FY</u>			07		08		<u>r 09</u>		<u>C</u>	<u>I ot</u>	
	Qty \$					Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment						3	0.8	3	0.8													6	1.6
Production Support Other (DSA) Interim Contractor Support																							0.0 0.0
Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP	0 0.0					3	0.1	3	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0		6 0 0 3 3 3 0 0 0	0.4 0.0 0.0 0.0 0.1 0.3 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST	0.0	)			0.0		0.1		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.4
TOTAL PROCUREMENT COST	0.0				0.0		0.9		1.1		0.0		0.0		0.0		0.0		0.0		0.0		2.0
METHOD OF IMPLEMENTATION:	0.0	<u></u>		ı	0.0	ı	0.0	ı		l	ADMINIS	STRATIV		-TIME	1		0.0	PRODI		LEAD-TI		4	
	CONTRAC			FY 200		Nov-02 Mar-03			FY 2004		Nov-03 Mar-04			FY 2005	:								
INSTALLATION SCHEDULE:	PY	1	<u>FY</u> 2	<u>′ 04</u> 3	4	_	1	2	<u>FY 05</u>	i 4	_	11	<u>F`</u> 2	<u>Y 06</u> 3	4								
INPUT	3	0	1	2	0		0	0	0	0		0	0	0	0								
ОИТРИТ	3	0	1	2	0		0	0	0	0		0	0	0	0								
INSTALLATION SCHEDULE:		1	FY 07 2	3	4		1	FY 08 2	3	4	-	1	2 2	<u>Y 09</u> 3	4	<u>-</u>				TC	<u>.</u>	TOTAL	
INPUT		0	0	0	0		0	0	0	0		0	0	0	0					0		6	
OUTPUT		0	0	0	0		0	0	0	0		0	0	0	0					0		6	
Notes/Comments																							

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVWAR February 2004

COST CODE MODELS OF SYSTEMS AFFECTED:

LCACs, all M-Class, all CG, DDG, DD, FFGs, all CV/CVN, all L-Class, and all SSNs will be equipped with Anti-Jam Antennas.

DESCRIPTION/JUSTIFICATION: Procurement and installation of anti-jam GPS user equipment and prevention equipment is required to ensure the continued utility of GPS signals from space in a hostile jamming environment.

The NAVWAR program will equip selected ships and submarines with anti-jam GPS antennas and other GPS Modernization enhancements to ensure the continued availability of GPS

to support surface and subsurface combat operations and provide reliable GPS and other navigation sensor data to ship-board C4ISR, Combat, and Weapons Systems.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)
----------------------------------

	Prior Y	rs					FY	03	<u>F</u>	<u> </u>	<u>F</u>	<u> </u>	FY	06	FY	07	FY	08	<u>F</u>	′ 09	<u>T</u>	<u>C</u>	Tot	al
	Qty	\$					Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																								
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	15	0.7					17	8.0	38	3.2	27	2.4	41	3.8	24	2.3	34	3.2	28	2.7	179	16.2	403	35.3
Production Support Other (DSA) Interim Contractor Support		0.2 0.1						0.1 0.1		0.8 0.3		0.8 0.5		1.0 0.5		1.0 0.6		1.0 0.4		1.1 0.4		10.1 2.7		15.9 5.9
Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP							15	0.7	17	0.7	38	1.6	27	1.2	41	1.9	24	1.2	34	1.8	207	11.1	403 0 0	20.2 0.0 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP							15	0.7	17	0.7	38	1.6	27	1.2	41	1.9	24	1.2	34	1.8			15 17 38 27 41 24 34	0.7 0.7 1.6 1.2 1.9 1.2
FY 09 EQUIP FY TC EQUIP		0.0				0.0		0.7		0.7		4.0		4.0		4.0		4.0		4.0	207	11.1	0 207	0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		1.0				0.0		1.7		0.7 5.0		1.6 5.3		1.2 6.5		1.9 5.8		1.2 5.8		1.8 6.0		11.1 40.1		20.2 77.3
METHOD OF IMPLEMENTATION:		1.0				0.0	1	1.7		0.0		ADMINIS	STRATIV		TIME:	1		0.0	PRODU		LEADTIN		9	
	CONTR	RACT [	DATES:		FY 200	3:	Aug-03			FY 2004	k:	Mar-04			FY 2005	i:	Nov-04							
	DELIVE	ERY DA	ATES:		FY 200	3:	Jan-04			FY 2004	k:	Oct-04			FY 2005	i:	Oct-05							
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>04</u> 3	4		1	2	FY 05 3	4	_	1	2 2	<u>Y 06</u> 3	4								
INPUT	15		0	5	6	6		9	10	10	9		6	7	7	7								
OUTPUT	15		0	5	6	6		9	10	10	9		6	7	7	7								
INSTALLATION SCHEDULE:			1	FY 07 2	3	4		1	FY 08 2	3	4	_	1	2 E	<u>Y 09</u> 3	4					TC		<u>TOTAL</u>	
INPUT			11	10	10	10		6	6	6	6		8	8	9	9					207		403	
OUTPUT			11	10	10	10		6	6	6	6		8	8	9	9					207		403	

MODIFICATION TITLE: NAVSTAR Global Positioning System (GPS) (521R) NAVSSI Lite February 2004

COST CODE MODELS OF SYSTEMS AFFECTED:

Ship classes receiving NAVSSI Lite will be: MCM, MHC, ARS, AS FFG, DD, AOE, LPD, LSD

DESCRIPTION/JUSTIFICATION: Field a relatively low cost electronic chart-based NAVSSI variant system on those ships which do not require full NAVSSI capabilities.

Program was mandated by CNO during Jan 2001 CEB meeting

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	Prior \	<u>⁄rs</u>					FY	<u>′ 03</u>	FY	′ 0 <u>4</u>	FY	/ 0 <u>5</u>	FY	06	FY	07	FY	08	<u>F</u>	Y 09	I	<u>.c</u>	To	<u>al</u>
	Qty	\$					Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment	38	4.2																					38	4.2
Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interim Contractor Support		1.0 0.5						0.3 0.2																1.3 0.7
Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP	18	1.3					7	1.3															25 0 18 7 0 0 0	2.6 0.0 1.3 1.3 0.0 0.0 0.0
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		1.3		0.0		0.0		1.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0 0 0	0.0 0.0 0.0 0.0 2.6
TOTAL PROCUREMENT COST		7.0		0.0		0.0		1.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		8.8
METHOD OF IMPLEMENTATION:												ADMINIS	STRATIV	E LEAD	D-TIME:	1			PROD	UCTION	LEAD-TI	IME:	2	2
	CONT	RACT [	DATES:		FY 200	3:				FY 2004	1:				FY 2005	:								
	DELIV	ERY DA	ATES:		FY 200	3:				FY 2004					FY 2005	:								
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>04</u> 3	4		1	2	FY 05 3	4	_	1	2	<u>Y 06</u> 3	4								
INPUT	25		0	0	0	0		0	0	0	0		0	0	0	0								
OUTPUT	25		0	0	0	0		0	0	0	0		0	0	0	0								
INSTALLATION SCHEDULE:			1	FY 07 2	3	4		1	FY 08 2	3	4	_	1	2 2	<u>Y 09</u> 3	4					TC	_	TOTAL	
INPUT			0	0	0	0		0	0	0	0		0	0	0	0					0		25	
OUTPUT Notes/Comments: Following procure	ment of	some N	0 AVSSII	0 ite units	0 OPNA	0 V Spons	or direct	0 ed no fud	0 her insta	0 allations	0 after 25 i	netallation	0	0 Inlished	0 in light of	0 new					0		25	

Exhibit P-3a, Individual Modification Program Unclassified Classification

## UNCLASSIFIED CLASSIFICATION

																															D	ATE			-	•		
									Ρ	RO	DUC	CTIC	ON S	SCH	EDU	ILE																			Febr	uary	2004	4
APPRO	PRIATION/BUDGET ACTIVITY														P-1 I	TEM	NOM	ENCL	LATU	IRE													SUE	HEA	D NO	·.		
OP,N - E	A2 COMMUNICATIONS & ELECTRONIC	EQUIPMENT													NAV	STAR	GPS	BLI:	2657														521	₹				
			s		ACCEP	BAL		FISCAL	YEA	R	03										FIS	CAL \	/EAR		04							FI	SCAL	YEAR	1	05		
COST	ITEM/MANUFACTURER		Е	PROC	PRIOR	DUE		CY 02					CA	LEND	AR YE	AR	(	)3						CAL	NDA	R YE	٩R	(	04				CAL	END/	R YE	AR	(	<b>)</b> 5
CODE			R	QTY	то	AS OF	0	N E	) ,	J F	М	Α	М	J	J	Α	S	0	N	D .	J F	М	Α	М	J	J	Α	S	0	N	D	J F	М	Α	М	J	J	Α
			v		1-Oct	1-Oct	С	O E	:   /	A E	. A	P			U	U	E	С	0	Ε .	A E	Α			U	U	U	E	С	0	E	A E	. A	Р	Α	U	U	U
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1R009	NAVSSI	04		6		6													Α			2			1			1			2							
		05		5		5																								Α			2			1		
1R009	NAVSSI Schools	04		3		3													Α			1	1	1														
																																	1					
1R011	NAVSSI - Retrofit																		Α			3	1	1	1	1	1	1					I		$oldsymbol{\Box}$			
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12013	NAV/WAR Hardware		$\vdash$						-		_	-	-						-		-	-	+							-		+	+	+-	—	+	$\rightarrow$	+
111010	TVAV WAIC Hardware	03		17		17				-		-				Α		-		-	1 2	2	2	2	2	2	2	2				+	+-	+	+	+	$\dashv$	+
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							OCT	NOV DE	C JA	AN FE	B MAF	R APF	R MA	/ JUN	JUL	AUG	SEP	OCT	NOV	DEC J	AN FEE	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC .	JAN FEE	B MAR	APR	R MAY	JUN	JUL	AUG S

		1	PRODUCTION RATE			PROCUREMEN*	T LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NAVSSI	ACS	1	25	50						1
NAVSSI	LITTON	1	25	50						i
NAVWAR	RSL, UK/TBD for Groundplane	250	480	1272						i
										1

1R013 NAVWAR is a joint service program, production rates apply to a combination of all the military services procurements.

Exhibit P-21 Production Schedule
Unclassified
Classification

## UNCLASSIFIED CLASSIFICATION

	CLASSIFICATION																														10	ATE						
									P	PRO	DUC	TIO	N S	СНІ	EDU	LE (	(Co	ntin	nue	d)															Febr	uary	2004	4
																									(1	DOD	EXHI	BIT F	P-21)									
	PRIATION/BUDGET ACTIVITY	COUIDMENT													P-1 I					RE													<b>SU</b> 521		AD N	٥.		
JP,N - B	A2 COMMUNICATIONS & ELECTRONIC T	EQUIPMENT	1 - 1	1			1	FISCA		•	06				NAV	IAR	GP5	BLI.	2657			CAL Y	<b>EAD</b>		07								SCAL Y			08		
COST	ITEM/MANUFACTURER		S	PROC	ACCEP PRIOR	BAL DUE		CY 0		4K	06		CAL	FND4	R YE	ΔR		06		<u> </u>	FIG	CAL			U/ ENDAR	ΥΕΔΙ	R	_	7		<u> </u>	FIS			AR Y			08
CODE	TEM/MANOTACTORER		P	QTY	TO	AS OF	0			J F	М	Α	M	_	J			0	N	D	J F	М	Α							N	n	J F		_				A
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		FY					Т				R				L		P					R								v		N E						G
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1R011	NAVSSI - Retrofit							$\vdash$	_	+	+							-		_						+							+	+		+	H	-+
		04																															+			$\Box$		-
		05																																				
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1R013	NAVWAR Hardware																																			$\perp$	ш	
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		05		27		27	2	2	2	3 2	2	3	2	2	3	2	2	_															$\bot$		-	$\downarrow \downarrow \downarrow$	$\sqcup$	
1R015	NAVSSI Lite										-																		_				+		-	$\vdash$	Н	
111010	TATOOI EILO	04					1		+	-	-	-	-				-	-	-	-					-		+		+	+	-	-	+	+	1	+	H	+
		05					1		-	+	+		1							+	-	$\dagger$				$\dashv$	+	+					+	+	+	+		+
	I.		1				ост	NOV I	DEC J	JAN FE	B MAR	R APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC J	IAN FE	MAR	APR	MAY	JUN	JUL /	AUG :	SEP	OCT	NOV	DEC	JAN FE	B MAR	R APE	R MAY	JUN	JUL	AUG 5

			PRODUCTION RATE			PROCUREMEN	T LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure

P-1 Shopping List-Item No 52 (11 of 11)

Exhibit P-21 Production Schedule

Unclassified

Classification

#### CLASSIFICATION:

		BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:			
			P-	40					Februa	ry 2004	
APPROPRIATION/BUD	OGET ACTIVIT	Υ				P-1 ITEM NOM	IENCLATURE				
<b>OTHER PROCURE</b>	MENT, NA	/Y/BA-2	Communica	ations and E	lectronic Equ	Armed	Forces Radio	o and TV Ser	vice/BLI: 266	6600 - Subhea	ad 82K0
Program Element for C	ode B Items:					Other Related	Program Elemer	nts			
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST											
(In Millions)	\$28.0		\$4.1	\$4.2	\$4.2	\$4.3	\$4.4	\$4.5	\$4.6		\$30.3
SPARES COST											
(In Millions)											\$0.0

PUC K0001: AFRTS Program - AFRTS shipboard entertainment systems provide improved quality of life at sea and at overseas shore bases. These systems contribute significantly to the habitability of Navy ships by providing and distributing news, command information, training, and entertainment programming using the latest technology available. These systems improve morale, combat effectiveness and retention rates of deployed personnel. All AFRTS systems use Commercial-Off-the-Shelf (COTS) equipment. Naval Media Center (NAVMEDIACEN) Fleet Support Detachments (FSDs) are the Installing agents for these systems. Each system installation is made based on ship availability and coordinated through the TYCOM's. The AFRTS program consists of the following systems:

(a) SITE CCTV - 2000/500: This SITE system is designed for aircraft carriers (CV/CVN). It is used to playback videocassettes and compact discs distributed by AFRTS and NMPS over four channels on a cable distribution system. This system also allows for the production of training tapes and command information programs. Systems are designed to interface with pierside cable systems where available. Requires manpower of two dedicated technicians and three operators. A total of seven systems required at an estimated unit cost of \$398.8K. Four units were procured in FY02 and prior. The remaining three (3) units will be procured in FY03 through FY 05. Each system requires three to ten months lead time to procure and install. SITE 2000/500 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satelite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satelite dishes) and NAVMEDIACEN is responsible for bringing the signal from the satelite receiver and distributing it throughout the ship.

SITE CCTV - Digital/500: is the next generation of the SITE 2000/500 project beginning in FY 2006. A total of seven (7) SITE CCTV - Digital/500 units will be procured.

(b) SITE 2000/400 - This SITE system is designed for large amphibious and auxiliary ship classes (AGF/AOE/AS/LCC/LHA/LHD/LPD/LSD). Same as SITE 2000/500 system, with the exception of studio production capability and lesser editing capability. Requires manpower of one dedicated technician and operator. A total of 30 systems are required at an estimated unit cost of \$227.1K. Twenty one units were procured in FY02 and prior. The remaining nine (9) units will be procured in FY03 through FY 05. Each system requires two to eight months lead time to be procured and installed. SITE 2000/400 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satelite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satelite dishes) and NAVMEDIACEN is responsible for bring the signal from the satelite receiver and distributing it throughout the ship.

SITE CCTV - Digital/400 is the next generation of the SITE 2000/400 project beginning in FY 2006. A total of twenty-eight (28) SITE CCTV - Digital/400 units will be procured.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 53 PAGE NO. 1

**UNCLASSIFIED** 

#### CLASSIFICATION:

## **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	Armed Forces Radio and	d TV Service/BLI: 266600 - Subhead 82K0

(c) SITE 2000/300 - This SITE system is designed for smaller combatants ship classes (CG/DD/DDG/FFG). This system is used primarily for playback of AFRTS and NMPS cassettes over two channels. Capable of producing simple local programs for training and command information. Requires manpower of one dedicated technician who also serves as operator. A total of 106 systems are required at an estimated unit cost of \$91.8K. Fifty seven units were procured in FY02 and prior. The remaining 49 units will be procured in FY03 through FY 06. Each system requires two to eight months

lead time to procure and install. SITE 2000/300 includes Television Direct-to-Sailor (TV-DTS) below decks equipment used to receive and distribute satelite programming onboard U.S. Navy ships. TV-DTS is a joint effort with SPAWAR. SPAWAR is procuring the above decks equipment (satelite dishes) and NAVMEDIACEN is responsible for bring the signal from the satelite receiver and distributing it throughout the ship.

SITE CCTV - Digital/300 is the next generation of the SITE 2000/300 project beginning in FY 2006. A total of (83) SITE CCTV - Digital/300 units will be procured.

(d) SITE 2000/200 - Compact system used to playback AFRTS and NMPS cassettes over two channels on submarines (SSN/SSBN). Capable of making simple recordings for training and command information. Requires no dedicated technician or operator. A total of 50 systems are required at an estimated unit cost of \$60.9K. Twenty nine units were procured in FY02 and prior. The remaining twenty one units will be procured in FY03 through FY05. Each system requires two to eight months lead time to procure and install.

SITE CCTV - Digital/200 is the next generation of the SITE 2000/200 project beginning in FY 2006. A total of (42) SITE CCTV - Digital/200 units will be procured.

(f) Integrated Radio Frequency Distribution System (IRFDS - Circuit 27TV): provides ship-wide transmission of news, command information, training and entertainment programming to sailors while at sea. The IRFDS receives audio and video signals from the SITE and TV-DTS systems and distributes the signals to all installed shipboard receivers. The IRFDS brings together the various independent distribution systems and integrates them onto a single transport medium for distribution throughout the ship This system replaces the unsupportable Circuit 14TV. IRFDS is a COTS system. IRFDS procurement also includes the purchase of equipment to integrate all television displays onto one distribution system. Total of 106 systems are required. An average unit cost to engineer, furnish and install is \$286.7K. Four units will be procured in FY 03. Each system requires a three to ten months lead time to be procured and installed. The following ship classes require the total of 106 IRFDS units: CG, CV/CVN, DD, DDG, FFG.

PUC KOINS: This funding supports the installation of SITE, TV-DTS, and IRFDS systems onboard Navy ships. Installations are performed by Naval Media Center Fleet Support Detachments and are based on TYCOM nominations.

PUC K0002: SPAWAR Program - Television Direct-to-Sailors (TV-DTS) provides a receive-only television capability to 170 ships in the Fleet. This capability features two full-time news and entertainment television channels as well as two stereo audio music channels, one monographic audio radio news and sports channel, one 128Kbps data channel, and an electronic program guide. AFRTS provides the programming. Satellite transponders, ground-based earth stations and leases for terrestrial connectivity are provided by SPAWAR (via O&MN funding). Each ship will be outfitted with COTS 1.3 meter C-band satellite stabilized antenna terminal for reception of the television signal.

P-1 SHOPPING LIST

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DD Form 2454. JUN 86

## **UNCLASSIFIED**

CLASSIFIC	WEAPONS SYSTEM COST ANALY									DATE:		
	P-5										February 200	)4
	RIATION/BUDGET ACTIVITY			P-1 ITEM N	OMENCLATU	RE/SUBHEAD	)					
	ocurement, Navy				D	LT) ( C		21/0 0 11	1.001/0			
BA-2 Co	mmunications and Electronic Equipme	nt	TOTAL 0003		orces Radi		service/82	2K0 - Subh	ead 82K0			
			TOTAL COST	IN THOUS	ANDS OF DOL	LAKS						
COST	ELEMENT OF COST	ID	Prior		FY 2003			FY 2004			FY 2005	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINES (N77)											
K0001	SITE CCTV - 2000/200	А	1631.8	7	59.6	417.3	7	60.9	426.1	7	62.0	434
	SURFACE SHIPS (N76)											
K0001	SITE CCTV - 2000/300	Α	5264.6	15	86.6	1,299.3	15	89.8	1,347.2	14	93.6	1,310.3
K0001	SITE CCTV - 2000/400	A	4329.0	3	222.5	667.4	3	227.1	681.2	3	229.6	688.7
K0001	IRFDS - (Circuit 27TV)	Α	4471.6	4	280.5	1,122.0	4	286.7	1,146.7	4	291.8	1,167.2
	AIRCRAFT CARRIERS (N78)											
K0001	SITE CCTV - 2000/500	А	1466.9	1	391.0	391.0	1	398.8	398.8	1	406.8	406.8
KOINS	Equipment Installations (NON-FMP)	Α	807.0			<u>159</u>			<u>163</u>			<u>163</u>
	Total NAVSEA (AFRTS)		17,970.9			4,056.0			4,163.0			4,170.0
	NAVY SPACE SYSTEM DIVISON (N63)											
K0002	TV-DTS (SPAWAR)	Α										
	KuFeedhorn ECP											
	PRODUCTION SUPPORT											
K0002	EQUIPMENT INSTALLATION (SPAWAR)	Α										
[	DSA											
	TOTAL SPAWAR											
	2446, JUN 86		OPPING LIST			4,056.0			4,163.0 CLASSIFICA			4,170.0

ITEM NO. 53

**UNCLASSIFIED** CLASSIFICATION:

<b>BUDGET PROCURE</b>	MENT HISTO	DRY AND	PLANNING EXHIBIT (	(P-5A)		Weapon System		A. DATE		
									February 20	04
B. APPROPRIATION/BUDGE	T ACTIVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
Other Procurement,	Navy				Armed Force	es Radio & TV Service	(AFRTS)		82	K0
BA-2 Communication	ns and Elect	tronic Equ	uipment							
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 03										
SITE CCTV - 2000/200	7	59.6	T-ASA/Navmediacen		MIPR/RCP	Various	12/02	1/03	YES	
SITE CCTV - 2000/300	15	86.6	T-ASA/Navmediacen		MIPR/RCP	Various	12/02	1/03	YES	
SITE CCTV - 2000/400	3	222.5	T-ASA/Navmediacen		MIPR/RCP	Various	12/02	1/03	YES	
SITE CCTV - 2000/500	1	391.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/02	2/03	YES	
IRFDS - (Circuit 27TV)	4	280.5	T-ASA/Navmediacen		MIPR/RCP	Various	12/02	2/03	YES	
FY 04										
SITE CCTV - 2000/200	7	60.9	T-ASA/Navmediacen		MIPR/RCP	Various	12/03	1/04	YES	
SITE CCTV - 2000/300	15	89.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/03	1/04	YES	
SITE CCTV - 2000/400	3	227.1	T-ASA/Navmediacen		MIPR/RCP	Various	12/03	1/04	YES	
SITE CCTV - 2000/500	1	398.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/03	2/04	YES	
IRFDS - (Circuit 27TV)	4	286.7	T-ASA/Navmediacen		MIPR/RCP	Various	12/03	2/04	YES	
FY 05										
SITE CCTV - 2000/200	7	62.0	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES	
SITE CCTV - 2000/300	14	93.6	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES	
SITE CCTV - 2000/400	3	229.6	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	1/05	YES	
SITE CCTV - 2000/500	1	406.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	2/05	YES	
IRFDS - (Circuit 27TV)	4	291.8	T-ASA/Navmediacen		MIPR/RCP	Various	12/04	2/05	YES	
					ı	<u>I</u>	_1	1		

## D. REMARKS

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST 53 Classification: ITEM NO.

> 4 PAGE NO.

<sup>(1)</sup> In addition to hardware, SITE CCTV total cost includes production engineering and integration.

<sup>(2)</sup> Unit Cost varies due to the ratio of single and dual antennas. Contract expires in March 2003.

TIME PHASED REQUIREMENT SO						IATION								NOMEN			004			C. DA	TE									
P-23						Oth BA-	2	rocu	reme	ent, l	-			5111			2000	/ K0				Fe		ary 2	004					
		_	FY 200				FY 200				FY 20		1 4		FY 200				FY 200		1 4		FY 20				FY 200			LATER
	DRY (P) 6			3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	` '				8	7	7	7	6	5	7	7	6	6	7	7	6	5	5											
SCHOOLS/OTHER TRAINING	HER TRAINING																													
OTHER																														
TOTAL PHASED REQ		6	14	22	30	37	44	51	57	62	69	76	82	88	95	102	108	113	118	118	118	118	118	118	118	118	118	118	118	118
ASSETS ON HAND	(P)	6																												
DELIVERY FY 01 & PRIOR																														
FY 01 & PRIOR																														
FY 02	(C)		8	8	15																									
FY 03	(C)						7	7	11																					
FY 04	(C)										7	7	12																	
FY 05	(C)														7	7	11													
FY 06	(C)																		5											
FY 07	(C)																													
FY 08	(C)																													
To Complete	(C)																													
TOTAL ASSETS	(C)	6	14	22	37	37	44	51	62	62	69	76	88	88	95	102	113	113	118	118	118	118	118	118	118	118	118	118	118	118
QTY OVER (+) OR SHORT (-)	, ,	0	0	0	7	0	0	0	5	0	0	0	6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS						RQMT	(QTY)			192	тота	L RQM	T 192	INSTAL	LED	ON	HAND	0	FY (	01 & PR	IOR	0	UNFL	JNDED	0					
Installations determined by TYCOM I	llations determined by TYCOM Nominations					1-								7	74				UNI	DELIVE	RED					1				
					APPN	1-																				-				
	2. APPN - 3. PROCU					ENT LE	ADTIME				ADMIN	N onths	]	INITIA	L ORDI	ER Ionth		<u> </u>		REOR		/lonth			1					

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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# **UNCLASSIFIED**

				EMENTS SCH NSTALLATION A				M NOMENCLATUR		CT UNIT			DATE	February 2004	4
APPROPRIATION Other Procum BA-2 Comm	rement	, Navy	ctronic	Fauinment			<u> </u>	Installing Agent	t						
1ST QTR	umouti	2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2002							FY 2	2003			
AGF 11 CG 50 DD 987 DDG 67 LPD 10 LSD 39	1 1 1 1 1	CG 49 CG 61 DD 989 DD 985 LCC 20 SSN 709 SSN 719 SSN 720	1 1 1 1 1 1 1 1 1	CG 48 CG 53 CG 55 DDG 55 DDG 62 LPD 8 SSN 725 SSN 769	1 1 1 1 1 1 1	CVN 71 DD 988 DDG 66 FFG 50 LHA 3 LPD 7 SSN 761 SSN 768	1 1 1 1 1 1 1	CG 54 CG 65 CG 68 DDG 53 LPD 15 SSN 751 SSN 757	1 1 1 1 1 1	AS 39 CG 64 CG 66 CG 71 LHD 6 SSN 762 SSN 764	1 1 1 1 1 1	CG 63 CG 51 CG 73 DDG 52 DDG 69 LSD 50 SSN 763	1 1 1 1 1 1	CG 52 CG 62 CVN 70 DDG 60 SSN 706 SSN 765	1 1 1 1 1
			F	Y 2004							FY 2	2005			
CG 59 CG 72 DDG 51 LSD 52 SSN 690	1 1 1 1	CG 58 CG 60 DDG 58 DDG 61 LHA 1 SSN 721 SSN 724	1 1 1 1 1 1 1 1	CG 69 DDG 54 DDG 64 DDG 65 LHA 4 SSN 722 SSN 754	1 1 1 1 1 1	CG 56 CG 67 CVN 72 DDG 56 SSN 723 SSN 752	1 1 1 1 1	CG 70 DDG 57 DDG 72 DDG 74 LSD 46 SSN 759	1 1 1 1 1	DDG 59 DDG 68 DDG 75 DDG 77 DDG 84 SSN 717 SSN 773	1 1 1 1 1 1	DDG 76 DDG 78 DDG 79 DDG 81 LSD 52 SSN 760 SSN 771	1 1 1 1 1 1	CVN 75 DDG 73 DDG 80 LHD 5 SSN 755 SSN 705	1 1 1 1 1 1

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CLASSIFICATION:

# **UNCLASSIFIED**

		ME PHASED R PPLEMENT S		NSTALLATIO			P-1 ITE	SITE CCTV-20					DATE	February 200	4
APPROPRIATI Other Procu	urement	t, Navy	ctronic	Fauinment				Installing Agen	nt						
1ST QTR		2ND QTR		3RD QTF		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2006	•		•		•		FY 2	007			•
DDG 63 DDG 83 DDG 85 LSD 44 SSN 708	1 1 1 1 1	DDG 86 DDG 87 LPD 17 LSD 45 SSN 701	1 1 1 1 1 1												
			F	Y 2008							FY 2	009			

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ITEM NO. 53 PAGE NO. 7

CLASSIFICATION:

TIME PHASED REQUIREMENT P-23					er P	rocu				,		B. P-1 SITI				RE ital /	K000	01		c. da		ıry 2	004							
			FY 20	02			FY 20	03			FY 200	)4			FY 200	)5			FY 200	06			FY 200				FY 200	8		LATER
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ACTIVE FORCE INVENTORY	(P)																			6	5	5	6	5	5	5	6	5	5	107
SCHOOLS/OTHER TRAINING																														
OTHER																														
TOTAL PHASED REQ		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	16	22	27	32	37	43	48	53	160
ASSETS ON HAND	(P)																													
DELIVERY FY 01 & PRIOR																														
FY 01 & PRIOR																														
FY 02	(C)																													
FY 03	(C)																													
FY 04	(C)																													
FY 05	(C)																													
FY 06	(C)																			6	10									
FY 07	(C)																						6	5	10					
FY 08	(C)																										6	5	10	
To Complete	(C)																													102
TOTAL ASSETS	(C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	16	16	22	27	37	37	43	48	58	160
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	5	0
D. REMARKS						RQMT	(QTY)	1	1	0	TOTAL	RQM	T 160			ON	HAND	0		)1 & PR		0	UNFL	INDED	0					
Installations determined by TYCC	allations determined by TYCOM Nominations				APPN	l -								(	)				UNE	DELIVE	RED					ŀ				
					APPN																									
				3.		UREM	ENT LE	ADTIME	<u> </u>			ADMIN			INITIA	L ORDE					REOR									
				3.	PROC	UKEMI	ENI LE	ADTIME	•				N onths		INITIA		=R lonth				KEUR		lonth							

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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# **UNCLASSIFIED**

		ME PHASED R PPLEMENT S		NSTALLATION			P-1 ITE	SITE CCTV - D					DATE	February 2004	1
APPROPRIATION Other Procuments BA-2 Comments of the comments o	uremen		ctronic	Equipment			ı	Installing Agent	į						
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2006			•				FY 2	2007			
				AOE 1 DDG 90 DDG 71 LHD 2 SSN 715	1 1 1 1	CVN 73 ARS 53 DDG 92 LHA 5 SSN 21 SSN 758	1 1 1 1 1	DDG 94 DDG 95 DDG 91 LHD 1 SSN 750	1 1 1 1 1	AOE 3 DDG 93 DDG 99 LSD 48 SSN 766 SSN 772	1 1 1 1 1	CG 57 DDG 70 DDG 98 LHD 4 SSN 770	1 1 1 1 1	CVN 76 DDG 96 DDG 97 SSN 716 SSN 718	1 1 1 1 1
			F	Y 2008							FY 2	2009			
ARS 52 CG 52 DDG 60 DDG 67 SSN 767	1 1 1 1 1	AOE 4 CG 64 DDG 62 DDG 66 LHD 3 SSN 768	1 1 1 1 1 1	ARS 50 CG 66 DDG 53 LSD 49 SSN 753	1 1 1 1 1	CVN 68 CG 65 CG 68 LSD 43 SSN 756	1 1 1 1	CG 61 CG 71 DDG 55 LSD 49 SSN 761	1 1 1 1 1	CG 55 CG 63 CG 73 LHA 3 SSN 720 SSN 769	1 1 1 1 1	CG 53 DDG 88 DDG 89 LSD 42 SSN 22	1 1 1 1 1	CG 54 CVN 69 LHD 7 SSN 725 SSN 764	1 1 1 1

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CLASSIFICATION:

TIME PHASED REQUIREMENT S						IATION							ITEM N				I/O	004		C. DA	TE									
P-23						BA-	2	rocu	reme	ent, r	-						uit Z	7TV)				Fe		ary 2	004					
		1	FY 200			4	FY 200			1	FY 200		1	1	FY 200			1	FY 200			1	FY 20			1	FY 200		4	LATER
		l '	2	3	4	l '	2	3	4	'	2	3	4	1	2	3	4	'	2	3	4	'	2	3	4	'	2	3	4	
ACTIVE FORCE INVENTORY	(P)	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	57
SCHOOLS/OTHER TRAINING																														
OTHER																														
TOTAL PHASED REQ		1	2	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	84
ASSETS ON HAND		1																												
DELIVERY FY 01 & PRIOR																														
FY 01 & PRIOR																														
FY 02	(C)		1	1	1																									
FY 03	(C)						1	1	2																					
FY 04	(C)										1	1	2																	
FY 05	(C)														1	1	2													
FY 06	(C)																		1	1	2									
FY 07	(C)																						1	1	2					
FY 08	(C)																										1	1	2	
To Complete	(C)																													56
TOTAL ASSETS		1	2	3	4	4	5	6	8	8	9	10	12	12	13	14	16	16	17	18	20	20	21	22	24	24	25	26	28	84
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
D. REMARKS						RQMT	(QTY)		106		TOTAL	RQMT	T 106	INSTAL	22	ON	HAND	0		00 & PR		0	UNFL	JNDED	0					
Installations determined by TYCON	llations determined by TYCOM Nominations				APPN	1-													OINL	IV L	INED					1				
						l -																				İ				
				3.	PROC	CUREME	ENT LE	ADTIME				ADMIN 2 M	N onths		INITIA	L ORDI 2 M	ER onths		1		REOR		/lonth							

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO 53 PAGE NO 10

# **UNCLASSIFIED**

				EMENTS SCH		)	P-1 ITE	EM NOMENCLATUR	E/PROJE	CT UNIT			DATE		
			P-23	Α			IRFDS	(Circuit 27TV)	K0001					February 2004	4
APPROPRIATION Other Processing BA-2 Commercial Commerci	urement	t, Navy	ctronic	Equipment			1	Installing Agent	İ				I		
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2002			•		•		FY 2	2003	•		
DD 991	1	CG 55	1	CG 57	1	CG 53	1			CG 61	1	CG 68	1	CG 52	1
			F	Y 2004							FY 2	2005			
CG 57	1	CG 71	1	DDG 66	1	DDG 73	1	DDG 76	1	DDG 72	1	DDG 54	1	DDG 51	1

P-1 SHOPPING LIST

ITEM NO. 53 PAGE NO. 11

CLASSIFICATION:

# **UNCLASSIFIED**

				EMENTS SCH			P-1 ITE	EM NOMENCLATUR	RE/PROJE(	CT UNIT			DATE		
	(00)		P-23		· DATA,			IRFDS (Circuit	27TV)/	K0001				February 2004	4
Other Proc	uremen		ctronic	Equipment			1	Installing Agent	t						
1ST QTF		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	•		F	Y 2006	•		•				FY 2	2007			
DDG 57	1	DDG 77	1	DDG 59	1	DDG 53	1	DDG 55	1	DDG 58	1	DDG 62	1	DDG 56	1
			F	Y 2008							FY 2	2009			
DDG 79	1	DDG 63	1	DDG 65	1	DDG 70	1	DDG 67	1	DDG 64	1	DDG 61	1	DDG 52	1
								IODDINO LIOT				01 40015104			

P-1 SHOPPING LIST

ITEM NO. 53 PAGE NO. 12

CLASSIFICATION:

P3A		INDIVIDUA	LIMO	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	TV-D	TS	TYP	E MODIF	ICAT	ION:				_			MOE	DIFICAT	ION T	ITLE:	TV-I	OTS		
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMI	ENT MILES	TONE	S:						-										
	FY 2	000 & Prior	<u>F</u>	<u>/ 2001</u>	<u>F</u>	Y 2002	<u>E)</u>	/ 2003	<u>E`</u>	2004	<u>E`</u>	Y 2005	<u>F</u> \	<u>/ 2006</u>	<u>F</u>	Y 2007		<u>TC</u>	<u>TO</u>	TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$ I	QTY	\$	QTY	<u>′\$</u>	QTY	<u>       \$                             </u>	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
																				<u> </u>
RDT&E																			0	0.0
<u>PROCUREMENT</u>	129	9.0	14	1.0	27	2.0													178	12.0
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT																				
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	112	15.3	20	3.0	38	6.9													178	25.4
TOTAL PROCUREMENT		24.3		4.0		9.4														37.7

P3A (Continued)		ASSIFIED		INDIVID	JAL MO	DIFICATIO	N (Con	ntinue	d)																				
MODELS OF SY		FFECTED:	: TV-DTS			MOD	IFICAT	ION TI	TLE:			TV-DTS	;																
INSTALLATION I METHOD OF IMI ADMINISTRATIV CONTRACT DAT	PLEMEN <sup>-</sup> /E LEADT	TATION:	AIT 1 Month Mar-00			PRODUC		LEADT	IME: Mar-0	11	-		3 Mor	nths	_	Y 200	n 2 ·	0	ct-01										
DELIVERY DATE		FY 2000:	Jun-00	_		FY 2001:			Jun-0							Y 200			n-02										
											(9	in Millio	ns)																
Cost:			2000 & Pric			FY 2001			FY 200	12		FY 2003			2004			Y 2005			Y 2006			2007			nplete		Total
		Qty \$ Qty \$								5	Qty	\$	Q	ty	\$	(	Qty	\$		Qty	\$	C	ty	\$		Qty	\$	Qty	\$
PRIOR YEARS																												0	0.0
FY 1998 EQUIP	PMENT	112		15.3	8		1.2																					120	16.5
FY 1999 EQUIP	PMENT				5		0.7																					5	0.7
FY 2000 EQUIP	PMENT				4		0.6																					4	0.6
FY 2001 EQUIP	PMENT				3		0.5	11		1.7	,																	14	2.2
FY 2002 EQUIP	PMENT							27		5.2	2																	27	5.2
FY 2003 EQUIP	PMENT																											0	0.0
FY 2004 EQUIP	PMENT																											0	0.0
FY 2005 EQUIP	PMENT																								$\bot$	$\bot$		0	0.0
TO COMPLETE																									$\bot$	丄		0	0.0
INSTALLA <u>TIO</u>	N SCHE	DULE:		_																									
	/ 2000 & Prior		<u>Y 2001</u> 3	4 4	· <u> </u>	<u>Y 2002</u> 3	4		<u>FY :</u> 2	<u>2003</u> 3	4	_	FY 2004	_	4	1		<u>2005</u>	4	4	FY 20		4	4		2007	4	TC	TOTAL
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FY 2005 BUDGET PRODU	ICTIO	N SC	HED	ULE,	P-21																												DA	TE			-	Febr	uary 2	2004		
APPROPRIATION/BUDGETOTHER PROCUREME				12							Wea	apon	•																				P-	1 IT	ЕМ		MEN <b>TV-</b>		TURE S	=		
						Pro	duction	on Ra	ate				Proc	ure	men	t Lea	ad-time	es																								
Item	1		nufact and			MSR	1-8	-5	MAX		T Pi	-		T Af Oct 1			nitial g PLT	-	Red Mfg			Т	otal			Uni Mea				Initi Ifg F			Reo Mfg				Total	d		nit of easur		
																																										•
								FISC	AL YEA	R 200	2								F	FISC/	AL YE	AR 20	003										F	-ISC/	AL YE	EAR 20	:004					
ITEM / MANUFACTURER	F	s	Q	D	В	2001					CALE	NDAR	YEAR	2002	2						CAL	.ENDA	AR YE	AR 20	003										CA	LEND	OAR YE	EAR 20	04			
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			Y	L	L	C O	E	A I	E A B R	A P R	A Y	U N	U	U G	S E P	С	O E	≣	A N	E	A R	P R	A Y	U N	U L	U G	S E P	Ĺ	O C T	0 V	E		E		A R	P R	A Y	U N	U L	U G	E P	Ĺ
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TV-DTS (SPAWAR)/MTN TV-DTS (SPAWAR)/MTN	98 99		120 5	120 5	0		-			1								+														+	-	-		_		₩	┢	$\rightarrow$		
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ITEM / MANUFACTURER	F	s	Q	D	В		I											+														1										
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		С	Υ	L	L	O N C O	E	A	E A	Р	M A	J	Ŋ	A U	S E P	C	N D	2	J A	F E	M A	A P	M A	J	Ŋ	A U	S E	A L	O C	0	E	J A	E		A	A P	A	Ŋ	N J	U	E	A L
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DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

311/244 ITEM NO 53 PAGE 15 Exhibit P-21 Production Schedule

		BUDGE		TIFICATION S	SHEET			DATE:	F. b	····· 2004	
APPROPRIATION/BUI	DGET ACTIVITY	✓ <u>ОТ</u> І	P-4	FUENT, NAVY	(BA-2)	P-1 ITEM NOM	MENICI ATLIDE		Februa	ry 2004	
Communications				LINIENT, NAVI	- (BA-2)			rm Support	Fauinment/#	267600/#267	606
Program Element for C		S Equipi	iioiit				Program Eleme		Equipment	2010001#201	
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY											
COST (In Millions)		А	\$17.6	\$8.5	\$5.3	\$3.4	\$4.0	\$4.1	\$4.2		\$47.0
SPARES COST (In Millions)											\$0.0

### PROGRAM DESCRIPTION/JUSTIFICATION:

Funding in this P-1 line provides Non-Propulsion Electronics equipment that will be installed aboard TRIDENT Class submarines as part of the Obsolete Equipment Replacement (OER) Program.

The OBSOLETE EQUIPMENT REPLACEMENT (OER) Program is the replacement of existing hardware/software that, though functional, has become operationally obsolete, is no longer in production or supportable with spare parts, has a high failure rate, or is no longer cost effective to maintain. OER hardware/software changes are expected to provide significant cost savings in reduced maintenance costs and use Commercial-Off-The-Shelf (COTS) technology where ever possible as long as all technical requirements are met.

This funding line provides funding to perform fully integrated system level testing and certification of changes to the TRIDENT Combat systems prior to installation of the changes on the ship. Integrated testing and certification provides assurance that when the changes are installed in the ship, the TRIDENT Combat system will operate as designed, allowing the ships to maintain their operational schedules and capabilities.

INSTALLATION (ELECTRONICS) - Provides funding for electronic equipment installation resulting from the OER Program.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 54 PAGE NO. 1

	WEAPONS SYSTEM CO P-5	OST ANA	ALYSIS			Weapon Sy	ystem					DATE: ebruary 200
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	NOMENCLA <sup>-</sup>	TURE/SUBHE	AD	Г	ebruary 200
	rocurement, Navy								_			
BA-2: C	ommunications & Electronics Equi	pment	TOTAL 000	T IN THOU	NAMES OF F	A	Strategio	Platform	Support E	quipmen	t/82P1	
			TOTAL COS	I IN THOUS	SANDS OF L	OOLLARS						
COST	ELEMENT OF COST	ID	Prior		FY 2003			FY 2004			FY 2005	
CODE		Code	Years Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<u>N872</u>											
P1221	Equipment OER	А				14,425			6,236			5,265
P1INS	Installation	Α				3,126			2,260			0
	2446, JUN 86				P-1 SHOPE	17,551			8,496			5,265 CLASSIFICA

## **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND F	PLANNING	EXHIBIT (	P-5A)			Weapon System		A. DATE		
									February 20	04
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
Other Procurement, Navy					Strategic Pla	atform Support Equipme	nt			82P1
BA-2: Communications & Electronic Equip	nment				_	lete Equipment Replace				<b></b> .
BA-2. Communications & Electronic Equi					CONTRACT			DATE OF	SPECS	DATE
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	FIRST DELIVERY	AVAILABLE NOW	REVISIONS AVAILABLE
Fiscal Year (03)										
CCS Rev. 7.3 (ARCI/ECP-4) ShipAlt Development PY	*	\$2,000.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	2/03	8/04	Yes	
CCS Rev. 6.4 (BPS-15J VMS)PY SHIPALT Dev (734)	*	\$120.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/03	6/04	Yes	
CCS Rev. 6.4 (BPS-15J VMS) Cert/Test (734)	*	\$348.40	NAVSEA	N/A	WR	NUWC Newport, RI	1/03	6/04	Yes	
CCS Rev. 6.4 (BPS-16(FC-1) VMS)PY ShipAlt Dev.	*	\$120.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/03	6/04	Yes	
CCS Rev. 6.4 (BPS-16(FC-1) VMS) Cert/Test (741-743)	*	\$348.40	NAVSEA	N/A	WR	NUWC Newport, RI	1/03	6/04	Yes	
ARCI Phase II MPP & TARPU	2	\$699.10	NAVSEA	N/A	CPFF	DSR, Fairfax, VA	6/03	8/04	Yes	
Command Upgrade	1	\$693.30	NAVSEA	N/A	WR	NUWC Newport, RI	4/03	8/04	Yes	
Command Upgrade (Review TSS Drawings)	1	\$8.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/03	6/04	Yes	
TRIDENT Rev. 7.3 System Level Support	1	\$860.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/03	8/04	Yes	
DPS Rev. 7.3	1	\$545.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/03	8/04	Yes	
MCW Procurement for SSBN 736 (Grade A Upgrd.)	1	\$360.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/03	8/04	Yes	
TRIDENT DWS MK2 Mod 3 Block 1C Rev. 7.3 Devel.	1	\$365.20	NAVSEA	N/A	WR	NUWC Newport, RI	6/03	8/04	Yes	
MS CCS Rev. 7.3 Content	1	\$75.00	NAVSEA	N/A	WR	NSWC CD, Bethesda, MD	6/03	8/04	Yes	
MS CCS Rev. 6.4 Content	1	\$45.50	NAVSEA	N/A	WR	NSWC CD, Bethesda, MD	3/03	8/04	Yes	
CCS Rev. 6.4 Monitoring Workstation Tech. Refr.	1	\$16.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/03	6/04	Yes	
ARCI Phase II Install Test Procedures	*	\$92.00	NAVSEA	N/A	CPFF	FTSCLANT, Norfolk, VA	6/03	6/04	Yes	
ARCI Phase II SIU, PCU, PreCable Kit, AOBT	*	\$1,885.20	NAVSEA	N/A	CPFF	LM Manassas, VA	8/03	6/04	Yes	
ARCI Phase II IETM	*	\$17.00	NAVSEA	N/A	WR	NSWC Crane,	6/03	6/04	Yes	
ARCI Phase II Testing	*	\$115.00	NAVSEA	N/A	WR	NUWC Newport, RI	6/03	6/04	Yes	
CSA MK2 Mod 0 6" EXCM (SSBN 733, 732)	2	\$199.60	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/03	6/04	Yes	
ARCI Phase II System Support	*	\$350.00	NAVSEA	N/A	CPFF	LM Manassas, VA	8/03	8/04	Yes	
ARCI Phase II MPP & TARPU	*	\$674.00	NAVSEA	N/A	CPFF	LM Manassas, VA	6/03	6/04	Yes	
SSGN Sail HF Array Installation Planning	*	\$25.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/03	6/04	Yes	
Deliver Unit 13 Modules	1	\$8.00	NAVSEA	N/A	WX	NUWC Keyport, WA	6/03	6/04	Yes	
CSA MK2 6" EXCM Tiger Team Inst. 731	1	\$987.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	8/03	6/04	Yes	
Rev. 5.6 (AN/BPS-15J w/VMS)HM&E Matl.	1	\$190.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	8/03	6/04	Yes	
Rev. 5.6 (AN/BPS-15J w/VMS) Installation	1	\$589.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	8/03	6/04	Yes	
Rev. 6.4 (741-743) HM&E Material	1	\$1,000.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	8/03	6/04	Yes	
AN/UNQ-9 EMI Fixes and Faceplate	'	\$379.90	NAVSEA	N/A N/A	WX	NSWC CD, Bethesda, MD	8/03	6/04	Yes	
Replace SC Station Obsolete Equip. Upgrade	1	\$263.00	NAVSEA	N/A N/A	CPFF	EB Corp., Groton, CT	4/04	6/04	Yes	
	1						-			
ARCI Phase II Units (SIU,PCU,PreCable)	7	\$148.20	NAVSEA	N/A	CPFF	Lockheed Martin, Manassas	4/04	6/04	Yes	
D. DEMARKO						<u> </u>		1		

## D. REMARKS

P-1 SHOPPING LIST Classification: DD Form 2446-1, JUL 87

> **UNCLASSIFIED** ITEM NO. 54 PAGE NO. 3

<sup>\*</sup> ARCI Phase (I/II) TA & HA MPP will support commonality, COTS equipment, and open system architecture. Unit costs are based on phased engineering change processes (ShipAlt Development and Certification), prototype and hardware procurements, and Training Unique Equipment costs to support shore based installations and can not be level funded.

# **UNCLASSIFIED**

### CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND I	PLANNING	EXHIBIT (I	P-5A)			Weapon System		A. DATE		
		,	•						February 20	04
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NO	MENCLATURE			SUBHEAD	
Other Procurement, Navy					Strategic Pla	atform Support Equipme	ent			82P1
BA-2: Communications & Electronic Equi	pment				P1221 Obso	lete Equipment Replace	ment			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Fiscal Year (04)										
CCS Revision Engineering Cert/Test	*	\$1,651.40	NAVSEA	N/A	WR	NUWC Newport, RI	6/04	6/05	Yes	
CCS Rev. 7.3 (ARCI//AN/BYG-1) SHIPALT Developmen	*	\$2,081.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	6/04	6/05	Yes	
CCS Rev. 7.3	*	\$1,332.60	NAVSEA	N/A	WX	NUWC Newport, RI	2/04	6/05	Yes	
MCW/RM	*	\$360.00	NAVSEA	N/A	CPFF	LM Manassas, VA	6/04	6/05	Yes	
DPS Modification in Spt. Of Rev. 7.3	*	\$389.00	NAVSEA	N/A	WX	NUWC Newport, RI	2/04	6/05	Yes	
Alteration Installation Team	*	\$250.00	NAVSEA	N/A	WX	NUWC Newport, RI	2/04	6/05	Yes	
CCS Revision Engineering	*	\$172.00	NAVSEA	N/A	WX	NUWC Newport, RI	6/04	6/05	Yes	
Fiscal Year (05)										
Rev. 8.0 (ARCI//AN/BYG-1) PY SHIPALT Development	*	\$544.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/05	6/06	Yes	
CCS Revision Engineering Cert/Test	*	\$3,327.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/05	6/06	Yes	
Rev. 9.0 (ARCI PhIII) ShipAlt Development	*	\$1,394.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/05	6/06	Yes	

## D. REMARKS

DD Form 2446-1, JUL 87 Classification:

ITEM NO. 54 PAGE NO. 4 **UNCLASSIFIED** 

<sup>\*</sup> ARCI Phase (I/II) TA & HA MPP will support commonality, COTS equipment, and open system architecture. Unit costs are based on phased engineering change processes (ShipAlt Development and Certification), prototype and hardware procurements, and Training Unique Equipment costs to support shore based installations and can not be level funded.

## **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PI	LANNING E	XHIBIT (P-5	A)			Weapon System		A. DATE		
									February 20	04
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOI	MENCLATURE			SUBHEAD	
Other Procurement, Navy					Strategic Pla	atform Support Equipm	ent			82P1
BA-2: Communications & Electronic Equip	ment				P1INS Insta					
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	REVISIONS AVAILABLE
Fiscal Year (03) CSA MK2 6 Inch External CM Install (732, 733) CCS Rev. 5.6(15J VMS) HM&E Mtrl. (Non-QE2) 730,731	2 2	\$749.00 \$225.00	NAVSEA NAVSEA	N/A N/A	CPFF CPFF	EB Corp., Groton, CT EB Corp., Groton, CT	6/03 6/03	8/04 8/04	Yes Yes	
CCS Rev. 5.6(15J VMS) Install (Non-QE2) 730,731 Rev. 5.6 (AN/BPS-15J w/VMS Install	1	\$454.00 \$270.00	NAVSEA NAVSEA	N/A N/A	CPFF WX	EB Corp., Groton, CT NUWC Dets	6/03 2/04	8/04 8/04	Yes Yes	
Fiscal Year (04)  Rev. 5.6 (AN/BPS-15J w/VMS) Installation (SSBN 736)  Rev. 5.6 (AN/BPS-15J w/VMS) Installation (SSBN 736)  Rev. 5.6 (AN/BPS-15J w/VMS) HM&E Material (736)  CSA MK2 Mod 0 6" EXCM Install (SSBN 730)  Rev. 6.4 AN/BPS-16 FC1 (SSBN 741-743) Installation  CCS Revision Engineering	1 1 1 1 3 1	\$82.00 \$268.00 \$190.00 \$829.00 \$276.33 \$62.00	NAVSEA NAVSEA NAVSEA NAVSEA NAVSEA	N/A N/A N/A N/A N/A N/A	WR CPFF CPFF CPFF CPFF WX	TRF, Kings Bay EB Corp., Groton, CT EB Corp., Groton, CT EB Corp., Groton, CT EB Corp., Groton, CT NUWC Neport, RI	4/04 4/04 4/04 4/04 4/04 4/04	6/05 6/05 6/05 6/05 6/05 6/05	Yes Yes Yes Yes Yes	
Fiscal Year (05) NONE										

## D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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<sup>\*</sup> ARCI Phase (I/II) TA & HA MPP will support commonality, COTS equipment, and open system architecture. Unit costs are based on phased engineering change processes (ShipAlt Development and Certification), prototype and hardware procurements, and Training Unique Equipment costs to support shore based installations and can not be level funded.

3A INDIVIDUAL MODIFICATION

Trident Sonar (Replaces AN/BQQ-5E(V)//

MODELS OF SYSTEM AFFECTED: AN/BQQ-6 Towed Array i TYPE MODIFICATION: Obsolete Equipment Replacement MODIFICATION TITLE: Phase I/II Multi-Purpose Processor (MPP)

## DESCRIPTION/JUSTIFICATION:

Acoustic Rapid COTS Insertion (ARCI) (Phase I/II) Multi Purpose Processor (MPP) replaces obsolete AN/BQQ5E(V)//AN/BQQ-6 Sonar Towed and Hull array processing equipment with a COTS based open system architecture with increased acoustic advantage.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTC OPEVAL = 12/97

	FY 20	002 & Prior	F١	′ 2003	F۱	′ 2004	FY	2005	FΥ	2006	F۱	Y 2007	FY	2008	FY	2009		<u>TC</u>	TO <sup>-</sup>	TAL
	QTY	\$	QTY			\$	QTY	\$	QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E		5.1																	0	5.1
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT	3	8.70	2	4.7															5	13.4
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT	1	0.1																	1	0.1
SUPPORT EQUIPMENT																				0.0
OTHER ARCI PHASE I & II (TA&HA)		3.97																		4.0
OTHER																				0.0
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST	2	1.60																	2	1.60
TOTAL PROCUREMENT	4	14.32	2	4.70	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	6	19.02

Acoustic Rapid COTS Insertion (ARCI

CLASSIFICAT	TION: UNC	LAS	SIFIED																										
P3A (Continue	ed)				INDIV	IDUA	L M	ODIFICA	ATION	(Conti	nued)																		
				Trident So																									
MODELS OF	SYSTEMS	AFFE	ECT <u>ED:</u>	AN/BQQ-6	Towed A	Array Pr	ocessi	ng) MC	DDIFIC	ATION	TITLE:		Acou	ustic R	Rapid	COTS	Inser	tion (A	ARCI)	Phase	e I/II Mu	ılti-Purp	ose	Proce	essor (N	MPP)			
INSTALLATIC	N INFORM	IATIC	N:																										
METHOD OF	IMPLEMEN	TAT	ION:	Engine	ered O	verha	auls/	ERPs/Re	efits																				
ADMINISTRA								PRODU	JCTIO				12 N	1onths	- 18	Month													
CONTRACT [			2003:		12/02					FY 2								FY 20		_				_					
DELIVERY DA	ATE:	FY	2003:		12/03	3				FY 2	004:							FY 20	005:	-				_					
														Millior															
Cos	t:		or Years		2003			Y 2004		FY 20			Y 200	-		Y 200			Y 200			2009			omplete			otal	
		Qty	\$	Qty	\$		Qty	\$	Qty	/	\$	Qty	\$	3	Qty	\$	5	Qty	\$	;	Qty	\$		Qty	\$		Qty	\$	
PRIOR YEAI	RS																										1	0.8	
FY 2000 EQ		1																									1	0.8	
FY 2001 EQ																											0	0.0	
FY 2002 EQ																											0	0.0	
FY 2003 EQ								**																			0	0.0	
FY 2004 EQ	UIPMENT																										0	0.0	
FY 2005 EQ	UIPMENT																										0	0.0	
FY 2006 EQ	UIPMENT																										0	0.0	
FY 2007 EQ	UIPMENT																										0	0.0	
TO COMPLE	ETE																										0	0.0	
INSTALLA <sup>-</sup>	TION SCHE	EDUL	E:																										
	FY 2002		FY 200	03		FY 20	004		E	Y 2005			FY 2	2006			FY 2	2007			FY 20	800			FY 20	009		TC	
	& Prior	1	2 3	4	1 1	2	3	4   1	_		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		TOTAL
In	2	0	0 0	0	0	0	0	0 0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	2	0	0 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
																									F	P-3A			

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CLASSIFICATION: UNCLASSIFIED

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Note \*\*: Installation funds reside in PMS425 based on POM-04 sponsor control adjustments, (FY04-09).

CLASSIFICATION: UNCLASSIFIED			
P3A	INDIVIDUAL MODIFICATION		
MODELS OF SYSTEM AFFECTED:	CSA MK2 MOD 0 TYPE MODIFICATION: Obsolete Equipment Replacement	MODIFICATION TITLE:	Six Inch External Countermeasures

## DESCRIPTION/JUSTIFICATION:

Replaces the CSA MK1 5 Inch External Countermeasure System with the CSA MK2 MOD 6 Inch External Countermeasure System on SSBNs 730-733, 735-740.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 20	002 & Prior	<u>F</u>	<u> 2003</u>	<u>F</u>	Y 2004	<u>FY</u>	2005	<u>F)</u>	2006	<u>F)</u>	2007	FΥ	<u> 2008</u>	FY	′ 200 <u>9</u>		<u>TC</u>	<u>TO</u>	<u>TAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			0	0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																			0	0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT	10	*																	10	0.0
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER																				0.0
OTHER (SSBN 736, 738, 739, 731)		1.686		0.99																2.7
OTHER (SSBN 732, 733)				0.39																0.4
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST (SSBN 732, 733, 730)			2	1.50	1	0.83													3	2.33
TOTAL PROCUREMENT	10	1.686	0	2.88	0	0.83	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10	5.4

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CLASSIFICATION: UNCLASSIFIED

<sup>\*</sup> Countermeasures procurements of HM&E Material and Fabrication funded under BA4 (535500).

CLASSIFICATION: <b>U</b> P3A (Continued)	NCLAS	SSIF	IED		IND	IVIDU	AI M	IODIE	ICAT	ION (	Conti	auod)																		
,										·		-																		
MODELS OF SYSTEM	ЛS AFF	-EC	TED:	CSA N	MK2 I	MOD (	)	_	MOD	IFICA	TION	TITLE	:	Six I	nch E	xterna	al Cou	untern	neasu	res										
INSTALLATION INFO				<b>F</b> lore		-1 <b>C</b> 1/		tale te	- 4 - 11 - 1	e																				
METHOD OF IMPLEN ADMINISTRATIVE LE			N: 1	Three p	nase	a retit/	piers				LEAD	TIME:		12 N	/lonths	:/9 N	1onths	s for k	its											
CONTRACT DATES:		 Y 200	03:		10/	02			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		FY 20				10/03		1011111		FY 20	005:										
DELIVERY DATE:	F١	Y 200	03:		7/0	3					FY 20	004:			7/04				FY 20	005:	-				_					
														(	(\$ in M	lillions	s)													
Cost:		or Ye	-		2003			Y 200			Y 200			Y 200			Y 200			Y 200			2009			omple			Total	]
	Qty	/	\$	Qty		\$	Qty	9	3	Qty		5	Qty		\$	Qty		\$	Qty	,	\$	Qty	9	6	Qty	\$		Qty	\$	-
PRIOR YEARS																												0	0.0	)
FY 2000 EQUIPMEN	IT																											0	0.0	,
FY 2001 EQUIPMEN	IT																											0	0.0	)
FY 2002 EQUIPMEN	IT			2		1.50																						2	1.50	)
FY 2003 EQUIPMEN	IT						1		0.83																			1	0.83	3
FY 2004 EQUIPMEN	IT																											0	0.0	1
FY 2005 EQUIPMEN	IT																											0	0.0	1
FY 2006 EQUIPMEN	IT																											0	0.0	<u> </u>
FY 2007 EQUIPMEN	IT																											0	0.0	<u>-                                    </u>
TO COMPLETE																														
INSTALLATION SO	$\neg$ $\vdash$				-								1																	<b>-</b>
FY 200		_	Y 200			FY 2				_	2005				2006			FY 2				FY 2					2009		<u>TC</u>	TOTAL
& Pric			- <u>3</u> 1	<u>4</u> 0	0		<u>3</u> 0	4	0	0	3	<u>4</u> 0	0	0	<u>3</u> 0	0	0		3	<u>4</u> 0	0	2	3	0	0	2	0	<u>4</u> 0	0	TOTAL 3
Out 0		-	•	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
																														<u>-                                    </u>
																											P-3A			
									IT	EM	54		P/	AGE	9									CLAS	SSIFI	CATIO	N: <b>U</b>	NCLAS	SIFIED	

CLASSIFICATION: UNCLASSIFIED																				
P3A MODELS OF SYSTEM AFFECTED:	Various	INDIVIDUA		<b>DIFICAT</b> E MODIF		ION:	Obsolet	e Equipmen	t Panlace	ment			МОГ	DIFICATI	ON TI	ITI F·	Capabi	ation of OER a lities (SSN (SSI Class Submarine	BN) Modernization	ns on
	various		- ' ' ' '	L WODII	10/11	1014.	Obsoleti	e Equipmen	i Nepiace	IIICIII	-		WOL	JII IOATI	014 11		OHIO	Diass Submann	<u> </u>	
DESCRIPTION/JUSTIFICATION:																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMEN	NT MII ESTO	NES																	
DEVELOT MENT OTATOONIAGON DEVEL													_							
	FY 20 QTY	002 & Prior \$	F) QTY	<u>/ 2003</u> \$	F) QTY	<u>/ 2004</u> \$	<u>FY</u> QTY	<u>/ 2005</u> \$	<u>FY</u> QTY	<u>2006</u> \$	<u>F`</u> QTY	<u>Y 2007</u> \$	<u>F\</u> QTY	<u>/ 2008</u> \$	<u>F\</u> QTY	<u>/ 2009</u> \$	QTY	<u>TC</u> \$	<u>TO</u> QTY	Γ <u>AL</u> \$
FINANCIAL PLAN (IN MILLIONS)		·				·				·								·		·
RDT&E																				0.0
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT																				0.0
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER																				0.0
OTHER																				0.0
OTHER	*	4.34	*	8.35	*	6.24	*	5.27	*	3.42	*	4.01	*	4.08	*	4.16				39.87
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST	*	8.15	*	1.63	*	1.43														11.21
TOTAL PROCUREMENT	0	12.49	0	9.98	0	7.67	0	5.27	0	3.42	0	4.01	0	4.08	0	4.16	0	0.00	0	51.08
						ITEM	54	Ī	PAGE	10	)						CLAS	SSIFICATION	ON: UNCLA	SSIFIED

Covers the procurement and installation requirements for the SSBN program minus ARCI and Six Inch Countermeasures.

 $<sup>^{\</sup>star}\,$  CCS Revisions 5.6/6.4/7.0/8.0/9.0 Planning Yard and other OER material.

CLASSIFICATION: UNC	LAS	SIFIED																										
P3A (Continued)				INDIVIDU	AL N	/ODIFI	CAT	ION (	Contin	ued)																		
MODELS OF SYSTEMS	AFF	ECTED:		Various		N	/IOD	IFICA	TION T	ITLE	:	Insta	llation	n of T	RIDE	NT O	ER Mo	odifica	ations	on OHIC	) Clas	s Sub	marir	ne				
INSTALLATION INFORM			Various	s																								
ADMINISTRATIVE LEAD					-	PROI	DUC.	TION	LEADT	IME:		Vario	ous															
CONTRACT DATES:	FY	2003:							FY 20	04:	_						FY 2	005:										
DELIVERY DATE:	FY	2003:				= =			FY 20	04:						=" =:	FY 2	005:	-									
												(\$ i	n Milli	ons)														
Cost:	Pr	ior Years	F١	/ 2003	F	Y 200	4	F	Y 2005	5	F	Y 200	6	F	Y 20	07	F	Y 200	08	FY	2009		To C	omple	te		Total	
	Qty	\$	Qty	\$	Qty	\$		Qty	\$		Qty	\$	;	Qty		\$	Qty	5	\$	Qty	\$		Qty	\$	,	Qty	\$	
PRIOR YEARS																											0.0	
FY 2000 EQUIPMENT	*	5.34																									5.34	
FY 2001 EQUIPMENT	*	2.8																									2.81	
FY 2002 EQUIPMENT			*	1.63																							1.63	
FY 2003 EQUIPMENT					*	1	1.43																				1.43	
FY 2004 EQUIPMENT																											0.0	
FY 2005 EQUIPMENT																											0.0	
FY 2006 EQUIPMENT																											0.0	
FY 2007 EQUIPMENT																											0.0	
TO COMPLETE																												
INSTALLATION SCH	EDU	LE:		1							1			-	1							-						
FY 2002		FY 200		FY 2					<u> 2005</u>				<u> 2006</u>				2007			FY 20				<u>FY 2</u>			<u>TC</u>	
& Prior In 0	0	$\frac{2}{0} \frac{3}{0}$	<u>4</u> 0	1 2 0	<u>3</u> 0	- 4	0	0	3 _	0	0	0	<u>3</u> 0	0	0	0	30	<u>4</u> 0	0		3	0	0	2	<u>3</u> 0	<u>4</u> 0	0	TOTAL 0
In 0 Out 0	0		0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u> </u>		0 0	<u> </u>			<u> </u>				<u> </u>				J	<u> </u>			Ū		<u> </u>	-				P-3A			
							ΙŢ	EM	54		PΑ	GE.	11									CLAS	SSIFI	CATIO	N: Ū	NCL	ASSIFIED	

## UNCLASSIFIED CLASSIFICATION

							DATE	February 2004	ı	
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOME	NCLATURE	1		SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELEC	CTRONIC EQUIP	MENT			BLI: 2760 OTH	ER SPAWAR TR	NG. EQUIP.			52DF
	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)		1.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0

**PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:** By PDM1, 12 Dec 02, OSD deleted funds from JSIMS-M for the period FY04-FY09, directing services to support JSIMS 1.0 validation activities in FY03, and directing the conduct of an Analysis of Alternatives in FY03. Navy program sponsor (N00T), with FMB concurrence, directed application of funds to modernization of legacy system (ENWGS).

The mission of The Joint Simulation System (JSIMS) is to provide a readily available, operationally valid synthetic environment for the Commanders-in-Chief (CINCs), their components, other Joint organizations and the Services to: jointly train, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations, define operational requirements, and provide operational inputs to the acquisition process. In short, JSIMS will provide not only an improved certified capability for inter-Service operability but also an enhanced Joint Battle Staff training capability for the warfighting CINCs. All service Executive Agents (EAs) and Development Agents (DAs) are required to contribute to the initial population of the JSIMS architecture with facilities, services and tools. In keeping with the premise that the Services/components are best able to define their own capabilities and functionality, the JSIMS Alliance Executive Office (AEO) is working in concert with the Services to import Service-provided functionality such as land, air, naval and littoral warfare to JSIMS. The AEO will integrate these functionalities for use in Joint Army/Marine/Navy/Air Force exercises. JSIMS development is incremental. In June 1994 the Services and Director Joint Program Office signed a Memorandum of Agreement (MOA) to establish JSIMS; a critical next-generation Modeling and Simulation (M&S) system. The long-term goal of the agreement is to integrate the range of missions of the Armed Forces within a common framework. That framework provides a balanced melding of live, virtual and constructive M&S representations, with Command, Control, Communications, Computers and Intelligence (C4I) fully supported, and interfaces using real-world equipment. As the Maritime Warfare EA, OPNAV N7, on 29 August 1995, assigned NAVSEA as the JSIMS Maritime Development Agent (DA). The objective of the JSIMS Maritime portion of the JSIMS Program is to enable training at all levels of command, in all warfare areas, including Joint and Service-specific training. JSIMS Maritime is developing the Maritime Mission Space Objects for the JSIMS Program, as well as selected common components and services. Program was transferred from NAVSEA to SPAWAR PD-13 at the beginning of FY99. Due to a reorganization at SPAWAR, the JSIMS-M Program now resides in PD15. On 16 December 1999, USD (AT&L) published a memorandum directing that JSIMS be reorganized per the recommendations made by the JSIMS Senior Review Board. These recommendations were detailed in a 19 November 1999 Senior Review Board memorandum. Specifically, JSIMS was directed to convert system architecture to the High-Level Architecture (HLA) standard, establish a JSIMS Alliance Executive Office, develop a new Acquisition Program Baseline (APB), and transfer Program Executive Office (PEO) responsibilities from Air Force to Army. USD (AT&L) has also designated JSIMS as an ACAT-1D program. This BLI procures the Contractor-Off-the-Shelf equipment on which the Navy JSIMS simulations will run in support of fleet wide training.

FY03 Budget Procurement: Applied funds to modernization of legacy system (ENWGS) at all Navy sites.

**FY04 Budget Procurement: None.** PDM1, 12 Dec 02, deleted JSIMS-M funding for FY04-09. **FY05 Budget Procurement: None.** PDM1, 12 Dec 02, deleted JSIMS-M funding for FY04-09.

# UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS										DATE		
	OGOT ANALTOIC											February 20	004
	IATION ACTIVITY			P-1 ITEM							SUBHE		
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT			BLI 2760	OTHER		R TRAINING					52DF	
			E)/ 0000	1				THOUS	ANDS OF DOL		1		
COST			FY 2003 UNIT	TOTAL		FY 20	TOTAL		FY 200	TOTAL			
CODE	ELEMENT OF COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST			
DF001	JSIMS-MARITIME	5**		825			0			0			
DF776	JSIMS-MARITIME NON-FMP INSTALLATION			142			0			0			
	TOTAL CONTROL			967			0			0			

Remarks: \*QTY Column reflects number of shore sites receiving various quantities of computer and network hardware in the given years. UNIT COST varies with configuration.

<sup>\*\*</sup>FY03 OPN funds applied to legacy system (ENWGS) with concurrence of Navy FMB.

## UNCLASSIFIED CLASSIFICATION

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT BLI 2760 OTHER SPAWAR TRNG EQUIP 52DF CONTRACTOR SPECS CONTRACT RFP DATE DATE COST **ELEMENT OF COST** FΥ AND METHOD LOCATION ISSUE **AWARD** OF FIRST QTY UNIT AVAILABLE REVISIONS LOCATION **DELIVERY** COST CODE & TYPE OF PCO DATE DATE NOW AVAILABLE JSIMS MARITIME 03 **VARIOUS** C-FP SSCSD Jun-03 Aug-03 Dec-03 5\*\* Yes N/A

Remarks: \*QTY Column reflects number of shore sites receiving various quantities of computer and network hardware in the given years. UNIT COST varies with configuration.

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<sup>\*\*</sup>FY03 OPN funds applied to legacy system (ENWGS) with concurrence of Navy FMB.

MODIFICATION TITLE: Other SPAWAR Training Equipment February 2004

COST CODE

DF001, DF776

MODELS OF SYSTEMS AFFECTED:

Various DESCRIPTION/JUSTIFICATION:

The Joint Simulation System (JSIMS) was to provide a readily available, operationally valid synthetic environment for the Commanders-in-Chief (CINCS), their components, other Joint organizations and the Services to jointly train, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations, define operational requirements and provide operational

inputs to the acquisition process. As Development Agent (DA), SPAWAR was to acquire, deploy and maintain the equipment and associated applications software necessary to run the.

Navy's JSIMS sites. Program was terminated for Service participation in FY2003

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Program assumed spiral development strategy. Development Blocks are equivalent to engineering software releases. Joint IOC--Q4 FY03. JSIMS Maritime funding deleted after FY03.

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
		or Yrs		<u>/ 02</u>	FY.		<u>FY (</u>			05	FY.		FY.			<u>′ 08</u>	FY.		TC			otal 0
RDT&E PROCUREMENT: Kit Quantity COTS Equipment	Qty*	1.0	Qty*	1.4	Qty*	0.8	Qty*	0.0	Qty*	0.0	Qty*	0.0	Qty*	0.0	Qty*	0.0	Qty*	0.0	Qty*	\$ N/A	Qty*	3.2
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	3	2.6	2	0.2	5	0.6	U	0.0	0	0.0	U	0.0	0	0.0	U	0.0		0.0	N/A	N/A	0	2.9
Other - (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	3	0.4 0.4	2	0.2	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	N/A	N/A	7 0 2 5	0.7 0.4 0.2 0.1
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP							0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0			0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST	3	0.4	2	0.2	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		N/A	7	0.7
TOTAL PROCUREMENT COST		4.0		1.8		1.0		0.0		0.0		0.0		0.0		0.0		0.0				6.8
METHOD OF IMPLEMENTATION:			SPAWA	R Sys Cer	nter Instal					ADMINIS	TRATIVE I	EADTIM	E:		2 Mos		PRODUC	TION LE	EADTIME		2 Mos	
	CONT	RACT	DATES:		FY 2003		Aug-03		FY 2004:				FY 2005	5:								
	DELI	/ERY D	ATES:		FY 2003:		Dec-03		FY 2004:				FY 2005	5:								
INSTALLATION SCHEDULE:	PY	_	1	2 <u>FY</u>	<u>04</u> 3	4		1	<u>F</u>	<u>Y 05</u> 3	4		1	2	FY 06 3	4	_					
INPUT**	Ę	5	1	3	1																	
OUTPUT**	Ę	5	1	1	2	1																
INSTALLATION SCHEDULE:			1	FY 07 2	3	4		1	FY 08 2	3	4		11	<u>FY 0</u> 2	<u>9</u> 3	4	_	<u>TC</u>	<u>TOTAL</u> 10			
OUTPUT																			10			

Notes/Comments: \*Quantities are Shore Sites, which vary in size, equipment contained and configuration of the sites and their equipment. \*\*Sites at Tactical Training Group, Atlantic and at the Naval War College contain a two-phased procurement and installation.

## **UNCLASSIFIED**

		E	BUDGET ITEM JUSTIFIC	ATION SHEE	T			DATE:			
			P-40						FEBRU <i>A</i>	ARY 2004	
APPROPRIATION/BU	JDGET ACTIVIT	ΓΥ				P-1 ITEM NOM	IENCLATURE				
OTHER PROCUR	REMENT, NA	VY/BA-2	2 Communications and	Electronic Ed	quipment	OTHER TRA	AINING EQU	IPMENT/BLI:	2762		
Program Element for	Code B Items:					Other Related	Program Eleme	nts			
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST											
(In Millions)	244.6		21.5	52.1	42.9	18.9	8.6	6.2	7.5		402.3
SPARES COST											
(In Millions)											0.0

The equipment procured under the Other Training Equipment for NAVSEA line supports various types of Communication and Electronic training requirements: Procures sustaining and training equipment/systems, training aids and logistic support equipment to support Fleet training requirements.

## (MB032) SUSTAINING TECHNICAL TRAINING EQUIPMENT

Funds procure Communication and Electronic Technical Training Equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.

## (MB040) BATTLE FORCE TACTICAL TRAINING (BFTT)

Funds will procure equipment/systems to support the Battle Force Tactical Training (BFTT) Program, which will provide the capability for coordinated shipboard combat system team and Battle Group/Battle Force (BG/BF) training in port. BFTT will provide realistic joint warfare training across the spectrum of armed conflict, realistic unit level team training in all warfare areas, a means to link ships together which are in different homeports for coordinated training, external stimulation of shipboard training systems and simulation of non-shipboard forces such as friendly, neutral, and enemy ships, aircraft and submarines. BFTT will use a distributed architecture in order to integrate existing on-board/embedded trainers, and will utilize Distributed Interactive Simulation (DIS) protocols to provide Battle Group/Force Commanders with the ability to conduct coordinated, realistic, high stress, interactive combat system training.

In FY 03 the projected Baseline Procurement consists of one full BFTT system for (1) CV/CVN Class, (3) CG Class, (3) DDG 51 Class ships, and ILS/Spares.

In FY 04 the projected Baseline Procurement consists of one full BFTT system for (1) CV/CVN Class, (3) CG 47 Class, (1) LHD Class, (2) LHA 1 Class, and (3) DDG 51 Class ships. One BFTT/TSSS/BEWT/ATC OBT/Link System for the CVN 76, (7) BFTT/TSSS Systems for the FFG 7 Class.

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DD Form 2454, JUN 86

BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		FEBRUARY 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	OTHER TRAINING EQU	IPMENT/BLI: 2762

In FY 05 the projected Baseline Procurement consists of one full BFTT system for (6) CG 47 Class, (1) LHD Class, and (1) LHA Class ship, (5) BFTT/TSSS Systems for the FFG 7 Class, ILS/Spares/acceleration, and (11) Trainer Stimulator-Simulator System (TSSS) units.

### (MB044) TRAINING SUPPORT EQUIPMENT/SUB

This line procures submarine Fleet and team trainers sustaining equipment and systems which emulate ship characteristic/models as approved by the CNO. Representative training systems include, but are not limited to: Acoustic Analysis Trainers (AAT), the Virtual Environment Submarine (VESUB), Submarine Piloting and Navigation Trainers (SPAN) and Reconfigurable SPAN identified by the Submarine Learning Center (SLC) for training activities, which are approved by the CNO. Supports training support equipment requirements identified by the Submarine Learning Center (SLC)/CNO for training activities.

### (MB050) SUBMARINE SONAR EMPLOYMENT TRAINER (SET)

The SET provides acoustic operator employment Fleet and team training for submarine sonar systems. It uses entirely commercial components to contain contact and environment models, simulations of the sensors and signal processing, simulated operator consoles, and an instructional subsystem including an instructor's console. FY00 procured a SET system for the Naval Submarine School at Groton, CT. The SET will support Sensor/Combat Systems programs of all currently deployed submarine classes, and will be a critical part of the training plans of the new SSN, Virginia, class in the future. The SET will be an essential component of an emerging shore based training system that will support the projected technology in the Fleet systems that are designed to meet current and future threats: the Acoustics, Rapid Commercial-Off-The-Shelf (COTS) Insertion (A-RCI) and C3I. The design concept for SET is based on the widely recognized and proven successful Interactive Multisensor Acoustic Trainer (IMAT) visualization and simulation technologies.

The SET will be part of the solution to a deficiency in operator competence and data recognition due to a lack of employment training by its use of 3-D graphics, animation, audio, and scientific visualization methods to illustrate highly complex displays and concepts of oceanographic physics. The demands of curriculum and student throughput at the primary submarine training site at NAVSUBSCOL, Groton dictates the number and configuration of trainers provided by the N77 budgets, including the SET.

FY05 Procures technical insertion of hardware to accommodate the latest deployed version of the Combat System or Acoustic Advanced Processing Build (APB).

#### (MB054) RADAR/ECS TRAINERS/EQUIPMENT

This line procures electronics trainers for SSNs such as radar, and exterior communictions (ECS).

## (MB056) SUBMARINE MULTI RECONFIGURABLE TRAINING SYSTEM / GENERAL SKILLS TRAINING (SEA 08)

This line procures Electronic Classrooms (ECR) to support general skills training.

### NAVY SMART TARGET PROGRAM (FY 04 NAVAIR Congressional Add \$1.6M):

Congress provided funding for Navy Smart Targets to provide a realistic visual, infrared and radio frequency simulation of threat systems. Smart Targets are used to provide training for the operators of airborne and ship board weapon systems. Smart Target Threats provide the diversity of threats required to accomplish the realistic integrated air defense training that is planned for Southern California Off Shore Range's (SCORE's) Sam Clemente Island (Adversary Island). This funding provides three (3) Smart Target systems.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 56 PAGE NO. 2

	WEAPONS SYSTEM CO	OST AN	IALYSIS			Weapon Sy	rstem							DATE:	
	P-5						·							FEBRUARY	2004
	RIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATU	RE/SUBHEAD	)					
	ocurement, Navy mmunications and Electronic Equipr	ment					Other Tr	aining Equ	inment/Δ	2MB					
DA 2 00	The state of the control of the cont		TOTAL COST	IN THOUS	ANDS OF DOI	LLARS	Tourior II	unnig Equ	притопала						
COST	ELEMENT OF COST	ID	Prior				ı	FY2003		Ι	FY 2004		T	FY 2005	
CODE	ELEMENT OF COST	Code	Years												
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	EXPEDITIONARY WARFARE (N75)														
MB040	Battle Force Tactical Training (BFTT)		9,480						1,078			0			(
	BFTT Air Traffic Control (ATC) Upgrades		2,800												
MB040	AIR WARFARE (N78)		0									4,255			(
	SURFACE WARFARE (N76)														
MB032	Surface Sustaining/TTE		519						57			45			59
MB040	Battle Force Tactical Training (BFTT)		198,614						14,635			39,244			35,789
	Tactical Communication On-Board Trainer		4,500												
	SUBMARINE WARFARE (N77)														
MB041	Submarine Synthetic Warfare, CTTM,EC		4,128												
MB044	Training Support Equipment / Sub		13,700						5,694			5,196			2,457
	Minor Training Support Equipment								(242)			(1731)			(760
	VESUB						2	583	(1166)	1	620	(620)			(0
	SPAN						2	1,063	(2126)	2	950	(1900)	1	1,000	(1000
	Reconfigurable SPAN						1	1,200	(1200)			(0)			
	IUSS Maintenance Trainer									1	250	(250)			
	Acoustic Analysis Trainer						2	480	(960)	1	695	(695)	1	697	(697
MB050	SUBMARINE SONAR EMPLOYMENT														
	TRAINER (SET)		9,292									0			1,773
MB054	Radar/ECS Training		1,554									0			68
MB056	MRTS/ Gen Skills Trng (SEA 08)		0									1,802			2,767
MB058	AIR WARFARE (N78)		0									0			(
	Subtotal (N75/N76)		215,913						15,770			39,289			35,848
	Subtotal (N77)		28,674						5,694			6,998			7,065
	Subtotal (N78)		0						0			4,255			(
	2446, JUN 86	<u> </u>	244,587		P-1 SHOPPIN				21,464			50,542 CLASSIFICA			42,91

	WEAPONS SYSTEM COST ANALYSIS P-5			WEAF	PONS SYS	TEM								DATE:	ry 2004
Other F	PRIATION/BUDGET ACTIVITY  Procurement, Navy  ommunications and Electronic Equipment			ID Code		MENCLATUR 42MB FRAINING	RE/SUBHEAD	IT							<b>.,</b>
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2002		FY 2003				FY2004	1		FY2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
SC704	CONGRESSIONAL ADDS NAVY SMART TARGET									3	536.3	1,609			
SC831	PRODUCTION ENGINEERING, OTHER	N/A	0									0			
SC860	ACCEPTANCE TEST & EVALUATION	N/A	0									0			
SC900	INSTALLATION OF EQUIP-NON FMP	N/A	0									0			
SC971	ILS, OTHER RANGES	N/A	0									0			
SCVAR	VARIOUS 1/		0									0			
<u> </u>		+	0			0		1	0			1,609			0
			U	P-1 SHOPP	L LIOT	U		1	0		<u> </u>	1,609	l		U

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# **UNCLASSIFIED**

<b>BUDGET PROCUREM</b>	IENT HISTO	ORY AND F	PLANNING EXHIBIT	T (P-5A)		Weapon System		A. DATE		
								F	EBRUARY 2	2004
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
Other Procurement, N	lavy								A2	MB
<b>BA-2 Communication</b>	s and Elec	tronic Equi	ipment			ning Equipment				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2003 MB040										
ILS/SPARES CV/CVN CLASS P/I/T/T/D DDG 51 CLASS P/I/T/T/D CG 47 CLASS P/I/T/T/D	MULTIPLE 1 3 3	72 2366 2248 2177	GOVWORKS GOVWORKS GOVWORKS GOVWORKS	VARIOUS VARIOUS VARIOUS VARIOUS	VARIOUS VARIOUS VARIOUS VARIOUS	VARIOUS VARIOUS VARIOUS VARIOUS	11/02 02/03 02/03 02/03	02/03 05/03 05/03 05/03 04/03	YES YES YES YES	
MB044 TSE VESUB SPAN Reconfigurable SPAN Acoustic Analysis Trnr	MULTIPLE 2 2 1 2	VARIOUS 583 1063 1200 480	NAWC/TSD NAWC/TSD NAWC/TSD NAWC/TSD NSWC/CD	VARIOUS 9/16/98 N/A N/A 08/00	VARIOUS C/FFP WX WX WX/RX	VARIOUS RDR, INC. NAWC/TSD NAWC/TSD NSWC/CD	VARIOUS 02/03 02/03 02/03 02/03	VARIOUS 09/03 08/04 04/04 06/04	YES YES YES NO YES	08/02
D. REMARKS					1	<u>I</u>	1			

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<b>BUDGET PROCUREM</b>	ENT HISTO	ORY AND F	LANNING EXHIBIT	Г (Р-5А)		Weapon System		A. DATE		
				, ,				F	EBRUARY 2	2004
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement, N	avy								A2	MB
<b>BA-2 Communications</b>	s and Elect	tronic Equi	ipment			ning Equipment				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2004 MB040		(552)								
CG 47 CLASS P/I/T/T/D DDG 51 CLASS P/I/T/T/D	3 3	2187 2300	GOVWORKS GOVWORKS	VARIOUS VARIOUS	VARIOUS VARIOUS	VARIOUS VARIOUS	02/04 02/04	05/04 05/04	YES YES	
LHD 1 CLASS P/I/T/T/D CV/CVN CLASS P/I/T/T/D	1	2142 2400	GOVWORKS GOVWORKS	VARIOUS VARIOUS	VARIOUS VARIOUS	VARIOUS VARIOUS	02/04 02/04	05/04 05/04	YES YES	
LHA 1 CLASS P/I/T/T/D FFG 7 CLASS BFTT/TSSS CVN 76 BFTT/TSSS/BEWT/	2 7	2686 2267	GOVWORKS GOVWORKS	VARIOUS VARIOUS	VARIOUS VARIOUS	VARIOUS VARIOUS	02/04 02/04	05/04 05/04	YES YES	
ATC OBT/LINK	1	4255	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES	
<b>MB044</b> TSE	MULTIPLE	VARIOUS	NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	VADIOUS	VARIOUS	YES	
VESUB	1	620	NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	11/03	09/05	YES	
SPAN	2	950	NAWC/TSD	N/A	WX	NAWC/TSD	11/03	08/04	YES	
IUSS Maintenance Acoustic Analysis Trnr	1 1	250 695	NAWC/TSD NSWC/CD	N/A N/A	WX WX	NAWC/TSD NSWC/CD	11/03 11/03	02/05 11/04	NO YES	TBD
MB056		4000	NAMOTOR			NAMOTOR	44/00	00/05		
MRTS  D. REMARKS	1	1802	NAWC/TSD	N/A	WX	NAWC/TSD	11/03	08/05		

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## **UNCLASSIFIED** CLASSIFICATION:

<b>BUDGET PROCUREM</b>	ENT HISTO	DRY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
								F	EBRUARY 2	2004
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NON	IENCLATURE			SUBHEAD	
Other Procurement, N	avy								A2	MB
<b>BA-2 Communications</b>	s and Elec	tronic Equ	ipment			ning Equipment				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2005 MB040		, ,								
CG 47 CLASS P/I/T/T/D LHA CLASS P/I/T/T/D LHD 1 CLASS P/I/T/T/D FFG 7 CLASS BFTT/TSSS ILS/Spares/Acceleration	6 1 1 5 MULTIPLE	2265 2781 2210 2267 98 525	GOVWORKS GOVWORKS GOVWORKS GOVWORKS GOVWORKS	VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS	VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS	VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS	02/05 02/05 02/05 02/05 11/04	05/05 05/05 05/05 05/05 05/05 02/05	YES YES YES YES YES YES	
MB044 TSE SPAN Acoustic Analysis Trnr	MULTIPLE 1 1	1000 697	NAWC/TSD NAWC/TSD NSWC/CD	VARIOUS N/A N/A	VARIOUS WX WX	VARIOUS NAWC/TSD NSWC/CD	VARIOUS 02/05 02/05	VARIOUS 04/06 06/06	YES YES YES	
MB056 MRTS SEA 08 ECRs	2 1	725 1317	NAWC/TSD NAVSEA	N/A N/A	WX SS/CPF	NAWC/TSD GD/EB, Groton CT	02/05 12/04	11/05 05/05	YES YES	

D. REMARKS

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BUDGET PROCUREMENT HISTORY AND PLANNI	NG EXHIBIT (P	-5A)				WEAPON SYSTEM	1	A. DATE		
					1	ļ		February		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						C. P-1 ITEM NOMENCLATURE			SUBHEAD	
BA-2 COMMUNICATIONS AND ELECTRONICS EQ	UIPMENT					OTHER TRAINING EQUIPM	ENT		42MB	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
CONGRESSIONAL ADDS SC704 NAVY SMART TARGET 2004	2		OCA Can Diagra	11/3	FFP	CarCo Task CA	2/04	4/05	YES	NA
2004	3	536.3K	GSA- San Diego	11/3	FFP	SenSyTech, CA	3/04	1/05	YES	NA
		l		D 4 CHODDING HC		1		<u> </u>	1	l

## **UNCLASSIFIED**

TIME PHASED REQUIREMENT SO P-23	CHEDULE								I/BUDG			,			USQ							C. DA	ΙΈ							
						BA-																		o-04						
		1	FY 200	3	4	1	FY 200	04 3	4	1	FY 200	)5 3	4	1	FY 200		4	1	FY 200	07 3	4	1	FY 200	08 3	4	1	FY 200	)9 3	4	LATER
						<u> </u>								L'		3												3		_
ACTIVE FORCE INVENTORY	(P) (P) (P)	68	0	3	4	0	4	5	9	0	4	4	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCHOOLS/OTHER TRAINING	(P)	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER	(P)																													
TOTAL PHASED REQ	(C)	79	79	82	86	86	90	95	104	104	108	112	117	117	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
ASSETS ON HAND	(BP)	0																												
DELIVERY FY 02 & PRIOR	(P)	79																												
FY 03	(P)	0	0	3	4																									
FY 04	(P)					0	4	5	9																					
FY 05	(P)									0	4	4	5																	
FY 06	(P)													0	0	1	0													
FY 07	(P)																	0	0	0	0									
FY 08	(P)																					0	0	0	0					
To Complete	(P)																									0	0	0	0	0
TOTAL ASSETS	(C)	79	79	82	86	86	90	95	104	104	108	112	117	117	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS				E.		RQMT	(QTY)				TOTAI	RQM	Γ	INSTA	LLED		HAND F 7/1/0:	2		99 & PF			UNFL	INDED						
				1.	APPN	-	OPN			123		123			79		F // I/U	7	UNL	JELIVE	0			0						
				2.	APPN	-																								
				3. N/A	PROC	CUREM	ENT LE	ADTIMI	Ē		6 Mon	ADMIN t	1		INITIA	L ORD	ER	6 Mon	t .	6 Mon	REOR ths	DER	!			]				

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# **UNCLASSIFIED**

			HEET-I	EMENTS SCHI				M NOMENCLATUR	E/PROJE(	CT UNIT			DATE	F 1 04	
			P-23	<b>SA</b>			AN/US	Q-T46 BFTT						Feb-04	
APPROPRIATI								Installing Agent							
Other Proc								N/A							
1ST QTR	nunicati	ions and Elec	ctronic	SEquipment 3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
ISTUIK		ZNDQIK		3KD QTK		4III QIK		ISI QIK		ZNDQIK		3KD QTK		4III QIK	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
		FY 2003									FY 2	2004			
							4				4		_		
					3		4				4		5		9
			F	Y 2005							FY 2	2006			
			4		4		5				0		1		0

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		ME PHASED R				1	P-1 ITE	M NOMENCLATURE	E/PROJEC	CT UNIT			DATE		
	(		P-23			'		AN/USQ-T46 B	FTT					Feb-04	
APPROPRIATI Other Proci	uremen		ctronic	: Equipment			I	Installing Agent					I		
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
			F	Y 2007							FY 2	008			
					0		0								
			FY 20	009											

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CLASSIFICATION:

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		BU	DGET ITEM JUST	IFICATION S	SHEET				DATE:		
			P-4	0					February 2	2004	
APPROPRIATION/BU	JDGET ACTIVIT	Y	BA-2	Communic	ations and	Electronic	P-1 ITEM NOME	NCLATURE	-		
OTHER PROCUR	REMENT, NAV	Υ		Equipme	nt		MAR	NE AIR TRA	FFIC CONTR	OL & LANDING S	SYSTEMS 42MJ
Program Element for	Code B Items:						Other Related Pr	ogram Elemen	ts	BLI#281500	
		NOT APPLICA	ABLE					0604504N			
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST											
(In Millions)	\$54.2	Α	\$7.6	\$4.1	\$15.6	\$19.6	\$20.2	\$19.7	\$17.2	Cont	Cont

#### DESCRIPTION:

Marine Air Traffic Control & Landing System (MATCALS) is a fully automated all weather expeditionary terminal Air Traffic Control System that provides arrival/departure and enroute surveillance control, automated precision approach and landing control, or Ground Controlled Approach (GCA). MATCALS satisfies the operational requirements set forth by Specific Operational Requirements (SOR): MATCALS SOR 34-22 of 12 July 1973.

Marine Remote Area Approach and Landing System SOR 34-26 of 30 Apr 1975, and Remote Landing Site Tower (RLST) Operational Requirements Document (ORD) 341-88-93 of 25 Jul 1997.

MATCALS, with other Marine Air Command and Control Systems and federal agencies, provides the ability to project air combat power in the Amphibious Operations Area (AOA) without regard to weather. Air traffic control and landing automation reduces air traffic controllers' traffic handling and management time, allowing more time for mission response and task accomplishment. It supports a required increase in aircraft sortie rates and contributes to extended time on target. The system provides for integration of Air Traffic Control (ATC) into the total Marine Air Command and Control System (MACCS).

MATCALS has three primary subsystems: (1) Air Traffic Control Subsystem (ATCS) consisting of an AN/TPS-73 Airport Surveillance Radar and various peripheral equipment; (2) All-Weather Landing Subsystem (ALS) consisting of an AN/TPN-22 Precision Approach Landing Radar, AN/UYK-44 computer and peripheral equipment; and (3) the Control and Communications Subsystem (CCS) (AN/TSQ-131(V)) with a Communications Control Group (CCG), radios, computer software, multi mode displays and peripherals. Other Fleet Marine Force ATC equipment supported by the funding line MATCALS are the AN/TSQ-120 Tower, AN/TRN-44 TACAN, AN/TPN-30 Marine Remote Area Approach & Landing Set (MRAALS), the AN/TSQ-216 Remote Landing Site Tower (RLST), the AN/TSM-170 Maintenance Shelters and various support items. Total requirement is for 13 subsystems: 9 for the Marine Air Traffic Control Detachments (MATCD); 1 for the Aviation Ground Support Element at 29 Palms, CA; 1 for operational contingencies/ISEA Test Bed at San Diego, CA and 2 for the Naval Air Technical Training Center (NATTC) in Pensacola, FL.

A portion of the current MATCALS is being transitioned to the Air Surveillance and Precision Approach Radar Control System (ASPARCS) (ORD 518-88-99 of 12 May 99). ASPARCS will consist of the AN/TPS-79 an Air Surveillance Radar, which will replace the AN/TPN-32 a Precision Approach Radar, which will replace the AN/TPN-22; and the AN/TPN-22; and the AN/TPN-23 an Operations/Communications Subsystem, which will replace the AN/TSQ-131. ASPARCS will provide greater mobility, transportability, reliability, maintainability, and interoperability with Marine Corps/Navy Command and Control Systems than the current MATCALS. Total OPN requirement for ASPARCS is 11 units: 9 for the Marine Air Traffic Control Detachments (MATCD's) and 2 for the Naval Air Technical Training Center (NATTC) in Pensacola. FL.

FY05 funding procures 18 MATCALS Radio ASPARCS ARC-210s (MJ431), 8 MATCALS Radio ASPARCS PRC-117F (MJ433), 2 ASPARCS Systems (MJ434), 6 Logistics Support Vehicles (MJ441), and various maintainability improvements and related installations.

INSTALLATION AGENT: SPAWARSYSCEN, SD and NAWCAD, St. Inigoes: Facilities that are to receive the equipment: Marine Corps air traffic control facilities, expeditionary airfields, and remote landing sites.

P-1 SHOPPING LIST

CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 57 PAGE NO. 1

	BUDG	ET ITEM JU		SHEET FOI	RAGGREGATED	ITEMS		DATE: February 2	004	
APPROPRIATION/BUDGET AC	TIVITY		<u> </u>	- <del>-</del>		P-1 ITEM NO	MENCI ATUR		00-7	
OTHER PROCUREMENT			BA-2			•			& I ANDING	SYSTEMS 42M
OTHER PROCOREMENT	ID ID	Prior	DA-2			WANINE AII	TRAFFIC	CONTROL	To	3 3 1 3 1 E WIS 42 WIS
Procurement Items	Code	Years	FY 2003	FY 2004	FY 2005				Complete	Total
MJ413 AN/TPN-30 MOD	A	i cais	1 1 2003	112004	112003				Complete	rotar
QTY		75							1	75
FUNDING		5.479								5.479
		0.110								0.110
MJ429 AN/TSQ-216 (RLST)	Α									
QTY		13								13
FUNDING		14.917								14.917
MILLOOMATONIO										
MJ430 MATCALS RADIO ARC-210	Α									
QTY		146	22							168
FUNDING		8.073	1.077							9.150
. 5115/110		0.0.0	1.5							000
MJ431 MATCALS RADIO									<u>                                       </u>	
ASPARCS ARC-210	В	· · ·					· · ·			
QTY					18		·		Continuing	Continuing
FUNDING					0.972				Continuing	Continuing
MJ432 MANPACK RADIOS	Α				<b> </b>				ļļ	
QTY		29	18	16						63
FUNDING		1.199	0.666	0.351						2.216
MJ433 MATCALS RADIO										
ASPARCS PRC-117F	В									
QTY					8				Continuing	Continuing
FUNDING					0.248				Continuing	Continuing
MJ434 ASPARCS SYSTEMS	В									
QTY					2				Continuing	Continuing
FUNDING					11.754				Continuing	Continuing
MJ437 AN/UYQ-42 UPGRADE	Α				<del>                                     </del>					
QTY		34								34
FUNDING		1.466								1.466
MJ439 AN/TSQ-120 UPRGRADE	Α	•		0						
QTY FUNDING		6 2.726	0.610	2 1.046						9 4.382
TONDING		2.720	0.010	1.040						4.002
MJ425 AN/TPN-20 SSM	Α			ļ	<b> </b>				ļļ	
QTY		17		ļ	<b>.</b>				ļļ	17
FUNDING		8.115								8.115
	L									
MJ440 DAME	Α		1.							
QTY			13	14						27
FUNDING			0.729	0.630	<del>                                     </del>			ļ		1.359
MIAAA LOO ORTA (SI IIO) S	$\vdash$				<del>                                     </del>			ļ		
MJ441 LOG SPT VEHICLE	Α		1					1	0	0 " '
QTY			-	4	6				Continuing	Continuing
FUNDING			-	1.000	1.539				Continuing	Continuing
MIAAO ACDADOO DUACE "			1	1	<del>                                     </del>			1		
MJ442 ASPARCS PHASE II	В		-							0 " '
QTY			1	1	<del>                                     </del>			1	Continuing	Continuing
FUNDING				ļ	<del>                                     </del>			1	Continuing	Continuing
OTHER COSTS		12.249	4.519	1.063	1.101				CONT	CONT
TOTAL FUNDING	1	54.224	7.601	4.090	15.614				CONT	CONT
	1	JEET						1		55.11

## **UNCLASSIFIED**

	WEAPONS SYSTEM C	OST AN	ALYSIS			Weapon	System						DATE: February 2004
APPROF	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	MENCLAT	URE/SUBHE	AD			i ebidaly 2004
Other P	rocurement, Navy		COMMUNICATEONIC EQU		ND		MARINE A	IR TRAF	FIC CONT	ROL & L	ANDING	SYSTEMS	642MJ
			TOTAL COST	IN THOUS									
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005		
			Total Cost	Quantity	Unit Cost	Total Cos	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
MJ427 MJ429	AN/TPN-30 MOD AN/TPN-22 SOLID STATE MODULATOR MAINT/RELIABILITY IMPROVEMENT AN/TSQ-216 (RLST)	A A A	5,479 8,115 4,068 14,917	VAR		3,593	VAR		837	VAR		831	
MJ431 MJ432	MATCALS RADIO ARC-210 MATCALS RADIO ASPARCS ARC-210 MANPACK RADIOS	A B A	8,073 1,199	22 18	51 37	1,077 666	16	22	351	18		972	
MJ433 MJ434 MJ437 MJ439	MATCALS RADIO ASPARCS PRC-117F ASPARCS SYSTEMS AN/UYQ-42 UPGRADE AN/TSQ-120 UPGRADE	B B A	1,466 2,726	1	610	610	2	523	1.046	8 2		248 11,754	
MJ440 MJ441 MJ442	DAME LOGISTICS SUPPORT VEHICLE ASPARCS PHASE II	A A B	2,720	13	56	729		45 250	630 1,000	6	257	1,539	
MJ831	INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING PRODUCTION SUPPORT ACCEPTANCE TEST & EVALUATION	N/A N/A N/A N/A	1,216 3,263 618 695			292 144 86			63 33 33 13			81 76 15	
MJ900 MJ990	NON-FMP INSTALLATION INITIAL TRAINING	N/A N/A	2,117 272			379 25			64 20			74 24	
		•	54,224			7,601			4,090			15,614	

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 57

PAGE NO. 3

CLASSIFICATION:

# **UNCLASSIFIED**

CLASSIFICATION:

BUDGET PROCUREM	MENT HISTO	DRY AND F	LANNING EXHIBIT (	P-5A)		Weapon System		A. DATE		
									February 20	04
B. APPROPRIATION/BUDGET	ACTIVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, N	Navy		BA2 - Communication	ns and	MARINE AIR	<b>TRAFFIC CONTROL &amp;</b>	LANDIN	G	42	MJ
			Electronic Equipmer	nt	SYSTEM					
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MJ431 MATCALS RADIO ASPARCS ARC-210										
FY - 05	18	54.0	NAVAIR	Nov-04	SS/OPTION	CEDAR RAPIDS, IA	Dec-04	Dec-05	YES	
MJ433 MATCALS RADIO ASPARCS PRC-117F										
FY - 05	8	31.0	NAVAIR	Nov-04	SS/OPTION	CEDAR RAPIDS, IA	Dec-04	Apr-05	YES	
MJ434 ASPARCS SYSTEMS										
FY - 05	2	5877.0	NAVAIR	Nov-99	FFP/OPTION	SYRACUSE, NY	Nov-04	Feb-06	YES	
MJ441 LOG SUPPORT VEHICLE										
FY - 04 FY - 05	4 6	250.0 257.0	NAVAIR NAVAIR	N/A N/A	WX WX	ST. INIGOES, MD ST. INIGOES, MD	Dec-03 Dec-04	Dec-04 Dec-05	YES YES	
D DEMARKS										

D. REMARKS

P-1 SHOPPING LIST ITEM NO. 57

UNCLASSIFIED

Classification:

## CLASSIFICATION: UNCLASSIFIED

Exhibit P-20, Requireme	ents Study	APPROPRIATION	I/BUDGET ACTI	VITY	BA-2 COMMUNI	CATIONS &	Date:		
		Other Procuremen	it, Navy		<b>ELECTRONIC E</b>	QUIPMENT		Febru	ary 2004
P-1 ITEM NOMENCLATUR	RE	Admin Leadtime	(after Oct 1):				Production Lead	Itime:	
MJ434 ASPARCS SYSTE	EMS		2 Months					16 N	/lonths
		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Buy Summary		1 1 2000	112004	2	2	2	2	1 1 2003	
Unit Cost				5.877	7.850	8.046	8.248	8.450	
Total Cost				11.754	15.700	16.092	16.496	8.450	
Asset Dynamics				1	101100	10.002	1000	0.100	
Beginning Asset Position						2	4	6	
Deliveries from all prior year	r funding								
Deliveries from FY 2003 fur									
Deliveries from FY 2004 fur									
Deliveries from FY 2005 fur	nding				2				
Deliveries from subsequent	years' funding					2	2	2	
Other Gains	-								
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attrit									
<b>End of Year Asset Positio</b>	==				2	4	6	8	
Inventory Objective or Curre		11	11	11	11	11	11	11	
Inventory Objective	Actual Training	Other than Traini	ing	Disposals		Vehicles Eligible		Aircraft:	
11	Expenditures	Usage		(Vehicles/Other	r)	FY 2004 Replac		TOAI:	
Assets Rqd For Combat	FY 2003 thru	FY 2003 thru		FY 2003 thru		Vehicles Eligible		PAA:	
Loads:	31 Jul 03	31 Jul 03		31 Jul 03		FY 2005 Replac		TAI	
WRM Rqmt:	FY 2002:	FY 2002:		FY 2002:		Vehicle Augmen	nt:	Attrition Res:	
Pipeline:	FY 2001:	FY 2001:		FY 2001:				BAI	
Other:	FY 2000:	FY 2000:		FY 2000:				Inactive Inv:	
TOTAL:								Storage:	

Remarks:

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 57 PAGE NO. 5

FY 2005 PRESIDENT'S BUDGE	T PRO	DUC.	TION	SCHE	DULE	, P-2	21											DATE			Fel	brua	ary	200	)4						
APPROPRIATION/BUDGET ACT	IVITY												Wea	pon	Sys	tem		P-1	ITEN	1 NC	OME	NCL	ΑŤι	JRE							
OTHER PROCUREMENT, I	(VAV	<u> </u>																MARI	NE AIF	RTRA	FFIC	CONT	rrol	& LA	NDING	SYS	TEMS	42N	IJ		
							Pro	ducti	ion F	Rate								nt Le	adtim	nes											
			ufactu										T Pr			T Af			nitial			eord							Unit		
Item	1	lame	and L	ocatio	n	MS	SR	EC	ON	M	ΑX	to	Oct	1	(	Oct 1	1	M	fg PL	Т.	M	fg Pl	LT_		Tota	ıl		Λ	/leas	ure	
MJ434 ASPARCS SYSTEMS		Lockh	nood N	/ortin			1		4		6					2			16						18			NO	NIE		
AN-TPY-1		LUCKI	ieeu i	viai tii i			-		4		O								10						10			NO	INE		
7.1																															
	ITEM / MANUFACTURER F S Q																					FISC	CAL Y								
ITEM / MANUFACTURER	F Y	S V	Q T	D E	B A	0	N	ט	J	F	M	А	I M	J	J	А	S	0	N	U	J	T F	CA	LEND	AR Y	EAR 2	003	А	S	E	,
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ITEM / MANUFACTURER	F	S	Q	D	В		2003 N				N/		CALE			R 2004			NI I	п			CA			EAR 2				_	
	Υ	V C	T Y	E L	A L	C	0	E	J A	E	M A	A P	A	Ŋ	Ŋ	U	пα	C	N O	E	J A	E	A	A P	A	Ŋ	Ŋ	U	S	E A	
						Т.	V	С	N	R	R	R	Y	N		G	P	т.	V	С	N	R	R	R	Y	N		G	P		
MJ434 ASPARCS SYSTEMS																															
AN-TPY-1	05	N	2	0	2														Α											2	2
Remarks:																															

<b>FY 2005 PRESIDENT'S BUDGE</b>	T PR	ODUC	CTION	ISCH	EDUL	E, P	P-21											DATE			Feb										
APPROPRIATION/BUDGET ACT	ΓΙVΙΤ	1											Wea	apon	Sys	stem		P-1	ITEN	N N	OME	NCI	LAT	UR	E						
OTHER PROCUREMENT,	NAV	Υ																MARI	NE AI	R TRA	AFFIC	CON	ITROI	. & L	AND	ING :	SYS	TEMS	S 421	ИJ	
							Pro	duct	ion I	Rate					Pro	cure	mer	nt Le	adtir	nes											
		Man	ufactı	ırer's								ΑL	T P	rior	AL	T Af	ter	I	nitia	l	Re	eord	ler							Unit	of
Item	1	Name	and L	ocatio	n	MS	SR	1-8	8-5	M	4Χ	to	Oct	: 1	(	Oct 1	1	Mf	g Pl	T	Mf	g Pl	LT		To	tal			M	leas	ure
AN/TPY-1		Lock	need I	Martin			1		4		6					2			16						1	8			NO	NE	
																											_				
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						F	ISCAL	YEA	R 20	06									FISC	CAL Y	EAR	200	7								
ITEM / MANUFACTURER													CALE	NDAR		₹ 200								LEN	DAR	YEA	R 20				
	Y V T C Y							E	A	E	A	A P	A	U	JU	U	E	0 0	0 2	ПС	A	E	A	P	A		J	O C	U	E	B A
							V	C	N	R	D	D	V	N		(÷	р		V	· ·	N	В	U	В	Y			-	<u>(÷</u>		
MJ434 ASPARCS SYSTEMS	05	N	2	0	2					2																					0
AN-TPY-1	06	N	2	0	2		Α															2								igwdot	0
																											-			$\vdash$	
																											- 1				
										FISC	CAL Y	FAR	2008									FISC	CAL Y	FAR	2009	9	_			$\dashv$	
ITEM / MANUFACTURER	F	s	Q	D	В	:	2007						CALE	NDAR	YEAI	R 200	8							_	DAR	_	R 20	09			
	Υ	V C	T Y	E L	A L	C	N O	E	J A	E	M A	A P	A	Ŋ	U	A U	S	C	N O	E	J A	E	M A	A P	IV A		J	Ŋ	A U	S E	B A
						Т.	V	C	N	R	R	P	V	N	-	G	P	Т	V		N	В	P	P	· ·		N.	_	G	P	ı
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Remarks: Outvear deliveries not	dianla	wod																													
Remarks: Outyear deliveries not	uispia	ıy <del>c</del> u.																													

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST

311/244 ITEM NO. 57 PAGE NO. 7 Exhibit P-21 Production Schedule

## **UNCLASSIFIED**

	В	UDGET IT	TEM JUSTIFICATION	ON SHEET	Γ		DATE:				
			P-40						Februar	y 2004	
APPROPRIATIO	N/BUDGET A	CTIVITY E	BA-2 COMMUNICATIO	NS &	P-1 ITEM NO	MENCLATURE					
OTHER PROC	UREMENT	, NAVY E	ELECTRONICS EQUIP	MENT		Ship	board Air T	raffic Contr	ol (42MP)	BLI #283100	
Program Elemen	for Code B It	ems:			Other Related	Program Elen	nents				
<b>Not Applicab</b>	e							06045	04N		
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST (In Millions)	\$106.0	N/A	\$8.1	\$7.8	\$7.7	\$8.0	\$8.2	\$8.4	\$8.5	CONT	CONT

DESCRIPTION: Shipboard Air Traffic Control (SATC) systems are responsible for safe and expeditious control of air traffic within 50 Nautical Miles of a ship. SATC systems include the air traffic surveillance radar, AN/SPN-43, and the air traffic central tracking and control system, AN/TPX-42, which has two major configurations: Carrier Air Traffic Control Center-Direct Altitude and Identity Readout (CATCC-DAIR) and Amphibious Air Traffic Control-Direct Altitude and Identity Readout (AATC-DAIR). Both DAIR systems use AN/SPN-43 and Identification Friend or Foe (IFF) inputs to track and control aircraft. Obsolescence problems are being addressed through various upgrades in a phased approach. The major upgrades include AN/SPN-43C, CATCC-to-AATC field change, and AN/TPX-42(V) Advanced Display System (ADS) upgrade, and a series of AN/TPX-42 modification kits requiring various combinations of AN/UYK-44 processor rehost, track processor upgrade, AN/UYQ-70 console, flat panel display, and other components to bring the predecessor system to AN/TPX-42A(V)14 with field changes 1 and 2 configuration.

FY 2005 funds the procurement of one AN/TPX-42A(V)14 Upgrade A kit and two AN/TPX-42A(V)14 Upgrade C kits. It also funds the installation of one AN/TPX-42A(V)14 Upgrade A kit, three AN/TPX-42A(V)14 Upgrade C kits, and various AN/SPN-43 modification kits.

Installing Agent: Shipyards and Alteration Installation Teams

When installation to be made: ROH/SRA/RAV

Ships or facilities to receive the equipment: CV/CVNs, LHD/LHAs, Software Support Activity (NAWCAD, St Inigoes), Integrated Combat System Test Facility (San Diego), Landing Systems Test Facility (NAWCAD, Patuxent River), and training sites.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 58 PAGE NO. 1

## UNCLASSIFIED

BUDGE	TITEM	JUSTIFIC	CATION SHEET FOR A P-40a	GGREGATI	ED ITEMS		DATE:	February 2004	
APPROPRIATION/BUDGE	T ACTIV	/ITY	BA-2 COMMUNICATIONS	<b>2</b>	P-1 ITEM NO	MENCLATURE	<u> </u> =	1 051441 9 2004	
OTHER PROCUREM	ENT, N	AVY	ELECTRONICS EQUIP		I - I I LIVI NO			Traffic Control (42MP)	
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005				Total
MP042									
CATCC to AATC F/C KIT	N/A								
QTY		13							13
FUNDING		26.326							26.326
MP043									
AN/TPX-42 ADS UPG	N/A								
QTY		1							1
FUNDING		0.860							0.860
MP044 1/									
AN/TPX-42 UPG A KIT	N/A								
QTY			2	2	1				5
FUNDING			3.020	2.968	1.553				7.541
MP046									
AN/TPX-42 UPG C KIT	N/A								
QTY				1	2				3
FUNDING				0.815	2.276				3.091
MP047									
AN/TPX-42 UPG D KIT	N/A								
QTY				3					3
FUNDING				1.582					1.582
MP048									
AN/TPX-42 UPG E KIT	N/A								
QTY									0
FUNDING									0.000
		· · · · · · · · · · · · · · · · · · ·							
OTHER COST	N/A	78.857	5.089	2.437	3.866				CONT
TOTAL P-1 FUNDING		106.043	8.109	7.802	7.695				CONT
			P-1 SHOPP	INC LIST	1	CLASSIFICA	TION:		I

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 58

## **UNCLASSIFIED**

1/ As design for the AN/TPX-42A(V)14 with field changes 1 and 2 reached completion, it was found that more functionality could be transferred into the upgraded digital and signal processors. The originally conceived product line of A, B, C, and D kits were meant to convert various configurations of AN/TPX-42A(V) to the AN/TPX-42A(V)14 with field change 1 and 2 configuration. The current submission reflects consolidation of the A, B, C and D product lines into two product lines (A and C), which adequately convert all existing configurations.

PAGE NO. 2

# **UNCLASSIFIED**

ITEM NO. 58 PAGE NO.

	WEAPONS SYSTEM COST ANA	ALYSIS		Weapon Sy	/stem									DATE:	
	P-5				1									Februa	ry 2004
	PRIATION/BUDGET ACTIVITY			ID Code	P-1 ITEM NO	DMENCLATU	JRE/SUBHE	AD							
	Procurement, Navy														
BA-2 C	OMMUNICATIONS & ELECTRONIC	S EQUIF		Α				Ship	board Air	Traffic Co	ntrol	42MP			
			TOTAL COS	T IN THOUS	ANDS OF DOL	LARS									
COST	ELEMENT OF COST	ID	Prior					FY 2003			FY 2004			FY 2005	
CODE	LEEMENT OF GOOT	Code	Years					1 1 2000			2001			1 1 2000	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MP023	AN/SPN-43 MOD KITS	N/A	1,027				Var.		1,517				Var.		63
	CATCC TO AATC F/C KITS	N/A	26,326						,-				-		
l l	AN/TPX-42 ADS UPGRADE	N/A	860												
	AN/TPX-42A(V)14 UPG A KIT 1/	N/A					2	1,510	3,020	2	1484 815		1	1553 1138	
	AN/TPX-42A(V)14 UPG C KIT AN/TPX-42A(V)14 UPG D KIT	N/A N/A								3	527		2	1138	2,276
MP048	AN/TPX-42A(V)14 UPG E KIT	N/A								Ü	027	1,002			
	INTEGRATED LOGISTICS SUPPORT	N/A	888						245			246			319
	PRODUCTION ENGINEERING SPT	N/A	1,774						775			250			248
	QUALITY ASSURANCE	N/A	343						97			98			120
	ACCEPTANCE TEST & EVALUATION NON-FMP INSTALLATION	N/A N/A	456 3.168						170 309			438			305
	FMP INSTALLATION	N/A	31,516						1,976			1405			2,81
	VARIOUS 2/	N/A	39,685						,,,						,-
1/ As des	 ign for the AN/TPX-42A(V)14 with field chang	ges 1 and 2													
reached of	completion, it was found that more functionali	ty could													
	erred into the upgraded digital and signal prod														
	nally conceived product line of A, B, C, and D convert various configurations of AN/TPX-42														
	PX-42A(V)14 with field change 1 and 2 config														
The curre	ent submission reflects consolidation of the A,	B, C and													
	t lines into two product lines (A and C), which	adequatel	y												
convert a	Il existing configurations.														
2/ The ar	mount identified against this cost element refl	l lects total													
	funding associated with cost elements no lo														
	in FY 2002 and beyond.														
			106,043						8,109		1	7,802			7,695
DD FORM	M 2446, JUN 86	P-1 SH	OPPING LIST	_								•	CLASSIFICA	TION:	

## **UNCLASSIFIED**

<b>BUDGET PROCUREME</b>	NT HISTOR	Y AND PLA	NNING EXHIBIT (	P-5A)		Weapon System		A. DATE		
				•					February 20	04
B. APPROPRIATION/BUDGET A	CTIVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, Na	vy	BA2-Comr	nunications and E	lectronics						
		Equipmen	t			board Air Traffic Cont	rol (SATC			MP
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MP042 CATTC to AATC-DAIR F/C Kits FY02	2	\$2,617	NAVAIR	N/A	PO	NAWCAD St. Inigoes	3/02	9/03	YES	
MP044 AN/TPX-42A(V)14 UPG A KIT										
FY03	2	\$1,510	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/02	10/03	YES	
FY04	2	\$1,484	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/03	10/04	YES	
FY05	1	\$1,553	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/04	10/05	YES	
MP046 AN/TPX-42A(V)14 UPG C KIT										
FY04	1	\$815	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/03	10/04	YES	
FY05	2	\$1,138	NAVAIR	N/A	PO	NAWCAD St. Inigoes	12/04	10/05	YES	
MP047 AN/TPX-42A(V)14 UPG D KIT										
FY04	3	\$527	NAVAIR	N/A	РО	NAWCAD St. Inigoes	3/04	3/05	YES	

#### D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 58 Classification:
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<sup>1.</sup> System integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through existing contractual vehicles.

<sup>2.</sup> Due to maturing design of the AN/TPX-42A(V)14 with Field Changes 1 and 2, the B Kit and D Kit have become identical with the C Kit. All three requirements have now been merged under the C Kit's Cost Code, beginning in FY 2005.

<sup>3.</sup> Lead times for the A Kit and C Kit have decreased due to learning curve efficiencies and a change of contract for one of the major components.

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVIDU	JAL M	ODIFICA	TION															
MODELO OF CVOTEM AFFECTED.	0) ( (0)			TVDE M	مماد	IOATION	1.	File-ba O	-e-u.			MODIE	0 A T1/	NI TITI 1	<b>-</b> .	CATON	11:6:	4: K:4 O	· · · · · · · · · · · · · · · · · · ·	
MODELS OF SYSTEM AFFECTED:		VNs, L-clased shore site	- /	TYPE M	ODIF	ICATION	1:	Flight Sa	arety			MODIFI	CATIO	JN IIILI	=:			tion Kit S 3. MP047		
DESCRIPTION/JUSTIFICATION:	selecte	ed shore sit	es.													(IVIPU23	, IVIPU4	3, IVIPU4	i, iviPu	40)
SATC MODIFICATION KIT SUMMARY T	hic ovhi	ihit cumm	arizoc I	orocurom	ont a	nd inetall	ation f	or project	t unit l	MD033	MDOA	2 and ME	20/10							
SATE MODIFICATION KIT SUMMART	IIIS EXIII	ibit Sullilli	anzes p	procurent	ent a	iiu iiistaii	alioni	or project	uniti	WIFUZS, I	VIF U4	o and wir	040.							
DEVELOPMENT STATUS/MAJOR DEVEL	OPMEN	NT MILES	TONES	S:																
										_										
	Pric	or Years	FY	2003	F١	2004	FY	2005	F١	<u> 2006</u>	F١	<u> 2007</u>	F١	2008	FY	2009		TC		<u>OTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	Var.	1.027																CONT		CONT
Equipment "B"																				
TPX-42 Upg. D Kit					3	1.582													3	1.582
TPX-42 Upg. E Kit															7	3.921	24	13.686	31	17.607
TPX-42 ADS Upg.	1	0.860																	1	0.860
SPN-43 Pitch/Roll Servo			28	1.514															28	1.514
SPN-43 Tilt Meter			13	0.003													15	0.004	28	0.007
SPN-43 STALO Repl.							6	0.063	6	0.063	9	0.112	5	0.061			2	0.026	28	0.325
SPN-43 Pedestal Upg.									2	0.312	6	1.048	1	0.165			19	3.543	28	5.068
SPN-43C Repl.															1	1.941	27	53.365	28	55.306
INTEGRATED LOGISTICS SUPPORT		0.027		0.074		0.049		0.020		0.032		0.014		0.039		0.171		CONT		CONT
PRODUCTION ENGINEERING		0.037		0.096		0.050		0.022		0.034		0.015		0.041		0.164		CONT		CONT
QUALITY ASSURANCE		0.014		0.041		0.021		0.008		0.013		0.006		0.016		0.075		CONT		CONT
ACCEPTANCE TEST & EVALUATION				0.170														CONT		CONT
INSTALL COST		1.728		0.827		0.117		0.305		0.258		0.094		0.104		0.011		CONT	<u> </u>	CONT
OTHER		70.919																	<u> </u>	70.919
TOTAL PROCUREMENT		74.612		2.725		1.819	1	0.418		0.712		1.289		0.426		6.283		CONT		CONT

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CLASSIFICATION: UNCLASS P3A (Continued)	SIFIED	)																		
PSA (Continued)																				
MODELS OF SYSTEMS AFFE	CTED	): CVs	s, CVN	s, LHDs, L	HAs, a	and selected		_ MO	DIFIC	ATION TI	TLE:	SATC M	odifica	ition Kit Si	ummai	ry (MP	023, N	/IP043, M	P048)	
INSTALLATION INFORMATIO	N:	sho	re site:	S.																
METHOD OF IMPLEMENTATI	ON:	Fie	ld Cha	ange Insta	II Tea	m	_													
ADMINISTRATIVE LEADTIME	: .		Var.		_			PRODU	CTION	I LEADTIN	ΛE:		Var.		_					
CONTRACT DATES:	FY 2	2003:		Var.		FY	2004	:	V	ar.		FY	2005:		Va	ar.				
DELIVERY DATE:	FY 2	2003:		Var.		FY	2004	: _	V	ar.		FY	2005:		Va	ar.		=- -		
										(\$ in M	lillions	.)								
Cost:	Prio	or Years	F	Y 2003	F	Y 2004	F	Y 2005	F,	(φ III IV Y 2006		Y 2007	F`	Y 2008	l F	7 2009	To C	omplete		Total
333	Qty	\$	Qty	\$	Qty		Qty	\$	Qtv	\$	Qty	\$	Qty	\$	Qtv	\$	Qty	\$	Qtv	\$
PRIOR YEARS	,	1.728		,	1	,		,				· ·								1.728
FY 2003 EQUIPMENT				0.827																0.827
FY 2004 EQUIPMENT						0.117														0.117
FY 2005 EQUIPMENT								0.305												0.305
FY 2006 EQUIPMENT										0.258										0.258
FY 2007 EQUIPMENT												0.094								0.094
FY 2008 EQUIPMENT														0.104						0.104
FY 2009 EQUIPMENT																0.011				0.011
TO COMPLETE																	Var.	CONT		CONT
INSTALLATION SCHEDUL FY 2002 & Prior In 0 Out 0		FY 2003 2 3 0 0 0 0	4 0 0	1 2 0 0 0 0	0	4 1 0 0 0	FY 2 0 0	2005 3 4 0 0 0 0	1 0 0	FY 2006 2 3 0 0 0 0	4 0 0	1 2 0 0 0 0	2007 3 0 0	4 1 0 0 0 0	FY 2 2 0 0	2008 3 4 0 0 0 0	1 0 0	FY 2009 2 3 0 0 0 0	9 4 0 0	TC

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PAGE NO.

5A

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVID	UAL M	ODIFICA	TION															
MODELS OF SYSTEM AFFECTED:		CVNs, L-cla	-	TYPE N	IODIF	ICATION	:	Flight S	afety		_	MODIF	ICATIO	ON TITL	E:	CATCO	to AA	TC F/C I	Cits (N	/IP042)
DESCRIPTION/JUSTIFICATION:	00.000																			
This kit retrofits CV/CVNs with improvemen	nts from	the AAT	C-DAIR	System	config	guration.														
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILES	STONE	Product	ion E0	CP 1/97 (d	confia	uration w	vith AE	OS)										
							- 0			/										
		or Years		2003		<u>/ 2004</u>		2005		<u>/ 2006</u>		<u>2007</u>		2008		2009		TC		OTAL
FINIANOIAL BLAN (INTAILLIONS)	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QIY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																			<del></del>	
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	13	26.326																	13	26.326
Equipment "B"																			1	
ECP 1 Grp "B"																			1	
ECP 2 Grp "B"																			1	
DATA																			1	
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																			1	
INTEGRATED LOGISTICS SUPPORT		0.167																	+	0.167
PRODUCTION ENGINEERING		0.228																	+	0.228
QUALITY ASSURANCE		0.084																	+	0.084
ACCEPTANCE, TEST & EVALUATION	+	0.001			<u> </u>			t	+	t	+		1		1			t	+	0.007
INITIAL TRAINING	+				<u> </u>			t	+	t	+		1		1			t	+	
INTERIM CONTRACTOR SUPPORT																			+	
INSTALL COST	9	4.625	2	1.393	2	0.800													13	6.818
TOTAL PROCUREMENT	Ť	31.430	_	1.393	l —	0.800			†		1		1		1				+ . ,	33.623

Exhibit P-3A (Individual Modification) CLASSIFICATION:

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ADMINISTRATIVE LEADTIME: 6 Months	CLASSIFICATION: UNCLAS	SIFIE	)																		
INSTALLATION INFORMATION:   AIT	P3A (Continued)																				
METHOD OF IMPLEMENTATION:	MODELS OF SYSTEMS AFF	ECTE	D: CVs	s, CVN	ls, LHDs, LI	HAs,			MC	DIFIC	ATION TI	TLE:	CATCC	to AA	TC F/C Ki	ts (M	P042)		_		
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 18 Months  CONTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A  DELIVERY DATE: FY 2003: N/A FY 2004: N/A FY 2005: N/A   Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  Qty \$	INSTALLATION INFORMATION	ON:	and	selec	ted shore si	ites.															
CONTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A  DELIVERY DATE: FY 2003: N/A FY 2004: N/A FY 2005: N/A   (\$ in Millions)  Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  PRIOR YEARS 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 4.625 2 1.393 2 0.800 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	METHOD OF IMPLEMENTAT	ION:		AIT				_													
DELIVERY DATE:   FY 2003:   N/A   FY 2004:   N/A   FY 2005:   N/A     FY 2005:   N/A     FY 2005:   N/A     FY 2006:   N/A     FY 2006:   N/A     FY 2006:   N/A     FY 2006:   N/A     FY 2008:   FY 2009:   F	ADMINISTRATIVE LEADTIM	E:	6	6 Mor	nths	<u>-</u> -			PRODU	CTION	N LEADTIN	ΛE:	18 Month	ıs		_					
(\$ in Millions)    Cost:	CONTRACT DATES:	FY	2003:		N/A		FY	2004	: _	N	I/A	_	FY 2005	5:		N/A_					
Cost:	DELIVERY DATE:	FY	2003:		N/A		FY	2004	:	Ν	I/A	_	FY 2005	5:		V/A	<del></del>				
PRIOR YEARS   9   4.625   2   1.393   2   0.800											(\$ in M	lillions	s)								
PRIOR YEARS 9 4.625 2 1.393 2 0.800	Cost:	Pri	or Years	F	Y 2003	F	Y 2004	F	Y 2005	F'	Y 2006	F	Ý 2007	F	Y 2008	F	Y 2009	To C	Complete	1	Γotal
FY 2003 EQUIPMENT FY 2004 EQUIPMENT FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT FY 2009 EQUIPMENT FY 2009 EQUIPMENT INSTALLATION SCHEDULE:    FY 2002		Qty		Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		\$
FY 2004 EQUIPMENT FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002  8 Prior 1 2 3 4	PRIOR YEARS	9	4.625	2	1.393	2	0.800													13	6.818
FY 2005 EQUIPMENT FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002 8 Prior 1 2 3 4 1 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 2003 EQUIPMENT																				
FY 2006 EQUIPMENT FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2008 EQUIPMENT TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002    FY 2003	FY 2004 EQUIPMENT																				
FY 2007 EQUIPMENT FY 2008 EQUIPMENT FY 2009 EQUIPMENT TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002  8 Prior	FY 2005 EQUIPMENT																				
FY 2008 EQUIPMENT	FY 2006 EQUIPMENT																				
FY 2009 EQUIPMENT TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002  8 Prior   1   2   3   4   1   2   3   3   4   1   2   3   3   4   1   2   3   3   4   1   3   3   4   3   3   3   3   3   3   3	FY 2007 EQUIPMENT																				
TO COMPLETE  INSTALLATION SCHEDULE:  FY 2002	FY 2008 EQUIPMENT																				
INSTALLATION SCHEDULE:    FY 2002	FY 2009 EQUIPMENT																				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	TO COMPLETE																				
	FY 2003 & Prior In 10	2	2 3 0 0	4	1 2	3	0 0	0	3 4 0		2 3 0 0	0	1 2 0 0	3 0	- 1	0	3 4 0 0		2 3	0	0 13

ITEM NO. 58

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CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVID	UAL N	MODIFIC.	ATIO	N														
MODELS OF SYSTEM AFFECTED:		CVNs, L-c	_ ′	TYPE M	ODIF	ICATION	:	Flight Sa	afety		-	MODIFI	CATIC	ON TITLE	i:	AN/TPX		(V)14 Up	grade	A Kit
DESCRIPTION/JUSTIFICATION:			_													•	,			
This upgrade converts AN/TPX-42A(V)12	2 to AN/	TPX-42A	(V)14 v	with Field	d Chai	nges 1 ar	nd 2.													
DEVELOPMENT STATUS/MAJOR DEVE		NT MILE		ECP 12/		7 2004	FY	7 2005	FY	′ 2006	FΥ	′ 2007	FY	′ 2008	F١	′ 2009		TC	7	OTAL
ı	QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT			2	3.020	2	2.968	1	1.553	1	1.579	1	1.607	2	3.271					9	13.998
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT				0.171		0.098		0.095		0.091		0.092		0.094						0.641
PRODUCTION ENGINEERING				0.679		0.077		0.076		0.072		0.075		0.079						1.058
QUALITY ASSURANCE				0.056		0.031		0.037		0.036		0.037		0.039						0.236
ACCEPTANCE, TEST & EVALUATION																				
INITIAL TRAINING																				
INTERIM CONTRACTOR SUPPORT																				
INTERIM CONTRACTOR SUPPORT					<del></del>			0.700	<del> </del>			4.040	4.5	0.400	_	0.440		0.00=	<b>—</b>	4 440
INSTALL COST			AP	0.065	2	0.732	1	0.703	1	0.781	2	1.319	AP	0.138	2	0.448	1	0.227	9	4.413

NOTE: AP is advance planning for installation. ITEM NO. 58 PAGE NO. 5D

CLASSIFICATION: UNCLASS	SIFIED	)																		
P3A (Continued)																				
MODELS OF SYSTEMS AFFE	CTED		s, CVN		HAs, aı	nd selected		_ MC	DIFIC	ATION TI	TLE:	AN/TPX-	42A(\	/)14 Upgra	ade A	Kit (MP04	44)			
INSTALLATION INFORMATIO	N:																			
METHOD OF IMPLEMENTATI	ON:	AIT					_													
ADMINISTRATIVE LEADTIME	:	2 N	1onths	<b>)</b>	<u>-</u>			PRODU	CTION	LEADTIN	ΛE:	10 Month	าร		_					
CONTRACT DATES: DELIVERY DATE:		2003: 2003:		12/02 10/03			2004: 2004:			/03 /04		FY 2005 FY 2005			2/04 0/05					
			ı		1		1			in Million			1		1		1		ı	
Cost:		or Years		Y 2003		Y 2004		Y 2005		<u>/ 2006</u>		Y 2007		Y 2008		Y 2009		omplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	1		1	0.00=	-	0.00=														0.700
FY 2003 EQUIPMENT	<u> </u>		AP	0.065	2	0.667	<u> </u>	0.700	<u>                                     </u>	0.015									2	0.732
FY 2004 EQUIPMENT	1		<del> </del>		AP	0.065	1	0.703	1	0.648		0.000	<b> </b>		<b> </b>		1		2	1.416
FY 2005 EQUIPMENT			-						AP	0.067	1	0.660							1	0.727
FY 2006 EQUIPMENT	ļ								AP	0.066	1	0.659	AP	0.069	4	0.224			1	0.725 0.293
FY 2007 EQUIPMENT FY 2008 EQUIPMENT			-						1				AP	0.069	1	0.224	1	0.227	2	0.293
FY 2009 EQUIPMENT	1		-						+				AF	0.009	<del>- '</del>	0.224	+ +	0.221	2	0.020
TO COMPLETE	1		1																	
INSTALLATION SCHEDULI FY 2002 & Prior In 0 Out 0		FY 2003 2 3 0 0 0 0	4 0 0	1 2 1 1 0 0	2004 3 0 1	4 1 0 1 1 1	FY : 2 1 0	2005 3 4 0 0 0 0	1 1 1	FY 2006 2 3 0 0 0 0	4 0 0	1 2 1 0 1 0	2007 3 0 0	4 1 0 1 1 0	FY 2 2 0 0	2008 3 4 0 0 0 0	1 1 1	FY 2009 2 3 1 0 0 1	4 0 0	TC
*NOTE: The system integral	tor, NA	AWCAD, h	as rec	duced tota	l lead t	time to 12	month	s for all b	uilds.	This has b	oeen a	chieved by	y aggr	essively p	ursuin	g learning	g curve	improve	ments.	

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P3A		INDIVID	UAL M	ODIFICA	ATION															
MODELS OF SYSTEM AFFECTED:		/Ns, L-cla	- '	TYPE N	/ODIF	ICATION	l:	Flight Sa	afety		=	MODIFI	CATIC	ON TITLE	<u>:</u> :	AN/TPX		V)14 Upg	rade C	Kit
DESCRIPTION/JUSTIFICATION:			-													•	,			
This upgrade converts AN/TPX-42A(V)13	and 14 t	o AN/TP	X-42A(\	/)14 with	ո Field	Change	s 1 and	d 2.												
DEVELOPMENT STATUS/MAJOR DEVEL	ODMEN	IT MILES	TONES	ECD 12	VO1															
JEVELOPINIENT STATUS/MAJOR DEVEL	OPIVIEN	II WILES	IONES	ECP 12	./U I					•										
	Prio	r Years	FY	2003	F١	2004	FY	2005	F١	2006	F١	2007	FΥ	2008	FY	2009		TC	Т	OTAL
	QTY	\$	QTY	\$	QTY		QTY		QTY		QTY		QTY		QTY	\$	QTY	<u>TC</u> \$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)				· ·																Ī
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT					1	0.815	2	2.276	2	2.314	2	2.355	2	2.398			6	7.454	15	17.612
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT	-					0.000		0.004		0.405		0.405		0.004		0.444				4.000
INTEGRATED LOGISTICS SUPPORT						0.099		0.204		0.195		0.195		0.204		0.111				1.008
PRODUCTION ENGINEERING						0.123		0.150		0.143		0.148		0.159		0.170				0.893
QUALITY ASSURANCE					-	0.046		0.075		0.072	-	0.075		0.079		0.084				0.431
ACCEPTANCE, TEST & EVALUATION					1		1		-		-								1	1
INITIAL TRAINING					1		1		-		-								1	-
INTERIM CONTRACTOR SUPPORT INSTALL COST					1	0.194	1	2.108	2	2.053	2	1.011	2	1.480	2	1.436	6	3.080	15	11.362
TOTAL PROCUREMENT	+				1	1.277		4.813		4.777		3.784		4.320		1.436	Ö	10.534		31.30
TO TAL FRUCUREWENT		J				1.277	<u> </u>	4.013		4.///		3.704		Exhibit F						SIFICA

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P3A (Continued)																				
MODELS OF SYSTEMS AFFE	CTED			s, LHDs, L				_ MO	DIFIC	ATION TI	TLE:	AN/TPX	-42A(\	/)14 Upgı	rade C	Kit (MPC	046)			
INSTALLATION INFORMATIO	N:	and	selec	ted shore s	ites.															
METHOD OF IMPLEMENTATION	:NC	-	AIT				_													
ADMINISTRATIVE LEADTIME:		2	. Mor	nths	_			PRODU	CTION	LEADTIN	ΛE:	10 Month	S		_					
CONTRACT DATES:		2003:		N/A			2004			/03	_	FY 2005			2/04					
DELIVERY DATE:	FY 2	2003:		N/A		FY	2004	·	10	/04	-	FY 2005	:	1	0/05					
										(\$ in M	lillions	;)								
Cost:		or Years		Y 2003	F	Y 2004		Y 2005	F`	Y 2006	F	Ý 2007	F	Y 2008	F	Y 2009		Complete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT					AP	0.194	1	1.911											1	2.105
FY 2005 EQUIPMENT							AP	0.197	2	1.944									2	2.141
FY 2006 EQUIPMENT									AP	0.109	2	0.875							2	0.984
FY 2007 EQUIPMENT											AP	0.136	2	1.342					2	1.478
FY 2008 EQUIPMENT													AP	0.138	2	1.366			2	1.504
FY 2009 EQUIPMENT																				
TO COMPLETE															AP	0.070	6	3.080	6	3.150
INSTALLATION SCHEDULE FY 2002 & Prior In Out 0	1 0 0	FY 2003 2 3 0 0 0 0	4 0 0	1 2 0 0 0 0	0	4 1 0 1 0 1	FY 2 0 0	2005 3 4 0 0 0 0	1 1 0	FY 2006 2 3 1 0 1 1	4 0 0	1 2 1 1 1 0	2007 3 0 1	4 1 0 1 0 0	1	2008 3 4 0 0 1 0	1 1 1	FY 2009 2 3 1 0 0 1	4 0 0	TC         TOTA           6         15           6         15

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PAGE NO.

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## **UNCLASSIFIED**

	В	UDGE	TITEM JUSTIFI	CATION	SHEET			DATE:				
			P-40						Februa	ry 2004		
APPROPRIATION/	BUDGET ACTIVI	TY	BA-2 COMMUNIC	CATIONS 8	<u>,</u>	P-1 ITEM NO	MENCLATURE	Ī				
OTHER PROCU	JREMENT, NA	VY	ELECTRONIC	S EQUIP	MENT		Automatic	Carrier Lar	nding Syste	m (42PN)	BLI# 283200	)
Program Element for	or Code B Items:					Other Related	Program Elem	nents				
	Not App	licable					0604504N					
	Prior	ID									То	
	Years	Code	F	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY												
COST (In Millions)	\$228.0	А		11.5	17.4	12.5	17.9	18.5	18.9	19.3	CONT	CONT

The Automatic Carrier Landing System (ACLS) provides the primary precision electronic guidance for landing aircraft under all weather conditions on CVs, CVNs, LHAs, LHDs and at selected Naval Air Stations. Many of the components in the system have been in service for more than twenty years. This program funds maintainability, reliability and supportability improvements to existing equipment components that can no longer be maintained and supported, as well as items providing upgraded operational capability. A major effort involves a group of technology-refresh upgrades to extend the AN/SPN-46(V) service life until 2020. A new Cost Code for AN/SPN-46(V) Life Cycle Extension, PN410, will cover the costs of this set of related modifications, which includes the Unit 19 modification identified in previous budgets. In addition to Radar Control Group (Unit 19), modification kits will be acquired for an Enhanced GPS/Inertial unit to replace an older INS unit, for modification of Radar Set Groups (Units 24 and 25), for replacement of the AN/AYK-14 with a state-of-the-art processor group, replacement of operator and maintenance consoles and peripheral displays.

Due to supportability deficiencies, and length of time in service, the AN/SPN-46(V)1 landing system is being upgraded to AN/SPN-46(V)3 on CVs and CVNs.

FY 2005 - Procures two AN/SPN-35C Upgrades, various miscellaneous ACLS Modification Kits, and associated installation efforts.

Installing Agent: Shipyards and Alteration Installation Teams (AITs).

Ships or facilities to receive equipment: CV/CVNs, LHAs, LHDs, selected LPHs, the In-Service Engineering Agent (ISEA-NAWCAD, St. Inigoes), selected shore sites and the training site.

P-1 SHOPPING LIST

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CLASSIFICATION:

**UNCLASSIFIED** 

DD Form 2454. JUN 86

CLASSIFI	ICATION: UNI	CLASSIFIED													
	WEAPONS SYSTEM COST ANALY	/SIS		Weapon Sys	tem									DATE:	
	P-5													Februa	ry 2004
	PRIATION/BUDGET ACTIVITY			ID Code	P-1 ITEM NO	MENCLATUR	E/SUBHEAD								
	ocurement, Navy														
BA-2 CO	MMUNICATIONS & ELECTRONICS EQUIPMENT		ITOTAL OCCI	A	IDO OF DOLL AF	Automatic C	arrier Landing	System (AC	LS) 42PN						
				IN THOUSAN	DS OF DOLLAR	(5									
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
PN404 PN408 PN409 PN410 PN800 PN830 PN840 PN900 PN900 PN990	AN/SPN-41 Ind. Landing Monitor (ILM) /1 ACLS Mod Kits 2/ AN/SPN-35C Modification AN/SPN-46(V) LCE Mod Kits Integrated Logistics Support Production Engineering Support Quality Assurance Acceptance Test and Evaluation Non-FMP Installation FMP Installation Initial Training Various 3/	A N/A N/A N/A N/A N/A N/A N/A	34,009 30,276 5,641 2,267 4,931 1,088 4,988 2,094 59,993 7 82,780				1 VAR VAR		1,500 369 273 610 1,582 70 222 266 6,533 25	VAR VAR		2,127 2,104 1,858 4,846 714 4 5,711	VAR VAR VAR		2,945 2,959 574 650 701 436 440 3,810
2/ ACLS I	Usunit price reduction due to reuse of some decon Mod Kits include kits for the following equipment: Anount identified in this line reflects total prior year full	AN/SPN-35,	AN/SPN-41, AN ciated with cost	elements no lo			beyond.								
DD EODW	1 2446, JUN 86	D_1 QU/	228,074 OPPING LIST					L	11,450		<u> </u>	17,364	CLASSIFICAT	ION:	12,515
DD I OIN	12110, 001100	ITEM NO.		PAGE NO. 2	2									INCLASSIFIED	)

# **UNCLASSIFIED**

BUDGET PROCUREM	MENT HISTO	ORY AND I	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
									February 20	04
B. APPROPRIATION/BUDGE					C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, I										
BA-2 COMMUNICATI	ONS AND E	LECTRON	ICS EQUIPMENT		Automa	tic Carrier Landing Sys	tems (A	CLS)		PN
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
PN404 AN/SPN-41 ILM FY03	1	\$1,500	NAVAIR	N/A	PO	NAWCAD St. Inigoes	11/02	1/04	YES	
PN409 AN/SPN-35C FY04 FY05	1 2	\$1,382 \$1,389	NAVAIR NAVAIR	N/A N/A	PO PO	NAWCAD St. Inigoes NAWCAD St. Inigoes	3/04 12/04	8/05 5/06	YES YES	

## D. REMARKS

System integration and assembly will be accomplished by the field activity, NAWCAD, after procuring individual components through various contractual vehicles. FY 2003 unit pricing for AN/SPN-41 reflects reuse of decommissioned components, refurbished and modified by NAWCAD.

РЗА		INDIVID	UAL	MODIFIC	ATIO	N														
MODELS OF SYSTEM AFFECTED:	CVs/CVN	Ns, L-class,		_	Flight	t Safety			_		MOE	DIFICATION	N TITLE:	AN/SPN	N-41 (PN	404)				
	selected	shore sites	i.	=" =																
DESCRIPTION/JUSTIFICATION:																				
AN/SPN-41 provides independent landing										LHD). T	he tot	al inventor	y objectiv	ve for thi	s item is t	twenty-se	even,	of which	า twent	y-
one are OPN funded and six SCN funded.	. The end	l-item is ar	n in-h	ouse buil	d by N	IAWCAD	St. Ini	igoes, M	1D.											
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT.	MII FSTO	ONES	······································	IOC <sup>2</sup>	1994														
		220.		-				•												
	<u>Prior</u>	r Years	<u>F`</u>	Y 2003	<u>F</u>	2004	<u>FY</u>	2005	<u>F)</u>	2006	<u> </u>	Y 2007	<u>FY</u>	2008	FY 2	2009		<u>TC</u>	-	TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			1	
PROCUREMENT	+								1										+	
INSTALLATION KITS NRE	-																		+	
INSTALLATION KITS																				
EQUIPMENT NRE	1																			
EQUIPMENT	20	34.009	1	1.500															21	35.509
Equipment "B"	1																			
ECP 1 Grp "B"	1																			
ECP 2 Grp "B"																				
DATA	1																			
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.033																		0.033
PRODUCTION ENGINEERING		0.048																		0.048
QUALITY ASSURANCE	1			0.003																0.003
ACCEPTANCE, TEST & EVALUATION	1					1									1				1	
INITIAL TRAINING	1																			
OTHER	1	39.725				1									1				1	39.725
INTERIM CONTRACTOR SUPPORT	1					1									1				1	
INSTALL COST	18	21.632	1	2.468	2	2.312									1				21	26.412
TOTAL PROCUREMENT	1	95.447		3.971		2.312														101.730
	-													Exhibit	P-3A (Ind	ividual N	lodific	cation)	CLA	SSIFICAT

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLA	SSIFI	IED																					
P3A (Continued)																							
MODELS OF SYSTEMS AF	FECT			, LHAs, LH shore sites		d MOI	DIFIC	ATION TIT	ΓLE: _	AN/SPN	l-41 (	PN404)											
INSTALLATION INFORMAT	ION:	33.33																					
METHOD OF IMPLEMENTA	ATION	I: Alter	ation	Installatio	n Tea	am_																	
ADMINISTRATIVE LEADTIN	ME:		2	Month	s	PRODUC	TION	LEADTIN	1E: _	14	Montl	hs											
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:							-					-			-						
							•			,											7		
Cost:		ior Years	F Qty	Y 2003 \$	on Team																		
PRIOR YEARS	Qty 18		Qly 1	2.468			Qty	Ф	Qty	φ	Qty	Φ	Qty	φ	Qty	Ф	Qty	φ	•	•	-		
FY 2003 EQUIPMENT	10	21.002	-	2.400	1								-						1				
FY 2004 EQUIPMENT																							
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT																							
FY 2007 EQUIPMENT																							
FY 2008 EQUIPMENT																							
FY 2009 EQUIPMENT																							
TO COMPLETE																							
INSTALLATION SCHEDU FY 2002 & Prior In 19 Out 18		FY 2000 2 3 1 0 1 0	<u>3</u>	4 1 0 0 0 1	1	3 4 0		2 3	0	1 2	3	0 0	0	3 4 0	0	2 3 0 0	0	1 2 0	3	0	0 21		

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CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVID	UAL I	MODIFIC	ATIO	N														
MODELS OF SYSTEM AFFECTED:	CVs/CVN	ls, L-class,			Fliaht	Safety					МОГ	DIFICATION	N TITI F	ACLSM	lod Kits S	Summary	(PN4	(80		
		shore sites		-	·g	- Cu. Ct.j			_					7.020		<i>y</i>	(	,		
DESCRIPTION/JUSTIFICATION:				•																
The equipment and installation costs on the	nis P-3a ar	e for indiv	/idual	modifica	tion pr	ograms t	hat do	not exc	eed \$	5 million	in eith	ner budget	year or S	10 millio	n in all y	ears.				
					•	Ü						Ū	•		,					
										_	_									
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILESTO	DNES	:	Vario	us Config	juratio	on Contro	ol Boa	rd appro	vals	_								
	Drion	·Vooro		/ 2002	Ε.	2004		/ 2005		/ 200e	-	V 2007	ΓV	2000	ΓV	2000		TC	7	-OTAI
	QTY	Years \$	QTY	<u>/ 2003</u> \$	QTY	<u>2004</u> \$	QTY	<u>2005</u> \$	QTY	<u>/ 2006</u> \$	QTY	Y 2007 \$	QTY	2008 \$	QTY	<u>2009</u> \$	QTY	<u>TC</u> \$	QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)	<del>Q</del> II	T V	QII	Ι	QII	<u>Ψ</u>	QII	I	QII	Ι	QII	Ψ	Q I I	<u>Ψ</u>	QII	Ψ	QII	Ι	QII	Ψ
																			${igspace}$	
RDT&E											-									
<u>PROCUREMENT</u>																				
INSTALLATION KITS NRE																			igsquare	
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	Var.	3.977																CONT.		CONT.
Equipment "B"																				
SPN-46 RDVP Mod	6	2.496			3	1.594													9	4.090
Upgrade of RDVP EDM			1	0.042															1	0.042
SPN-46/BFTT Interface	10	0.268	4	0.110															14	0.378
SPN-46 Power Monitor (see NOTE)			1	0.086															1	0.086
SPN-46 LSO Waveoff			2	0.015			6	0.045											8	0.060
SPN-46 Ka Receiver			32	0.060															32	0.060
DAIR/NTDS End-around (see NOTE)			15	0.026															15	0.026
SPN-46 Booster Amp			2	0.030			6	0.091											8	0.121
SPN-46 Spin Motor	15	0.012																	15	0.012
SPN-41 ARA-63 Repl.					5	0.533													5	0.533
SPN-41 Xmtr Mod											1	0.354							1	0.354
SPN-35 Shock Mod							4	1.203	4	1.224	3	0.934			1	0.323	1	0.328	13	4.012
SPN-35 Antenna Stabilization							4	1.120	3	0.854	4	1.159			1	0.300	1	0.306	13	3.739
SPN-35 UPS Mod							1	0.281											1	0.281
SPN-35 Power Supply Mod							1	0.205											1	0.205
INTEGRATED LOGISTICS SUPPORT		0.050		0.123		0.136		0.129		0.075		0.075		0.548		0.230		CONT.		CONT.
PRODUCTION ENGINEERING		0.169		0.208		0.145		0.083		0.025		0.193		0.847		0.227		CONT.		CONT.
QUALITY ASSURANCE				0.017		0.093		0.049		0.010		0.109		0.300		0.135		CONT.		CONT.
ACCEPTANCE, TEST & EVALUATION		0.150										0.002								0.152
DISCONTINUED COST ELEMENTS		82.780																		82.780
INSTALL COST	3	2.433	51	0.266	1	0.095	36	0.440	12	0.193	7	0.125			1	0.033	10	0.165	121	3.750
TOTAL PROCUREMENT		92.335		0.983		2.596		3.646		2.381		2.951		1.695		1.248		CONT.		CONT.

Exhibit P-3A (Individual Modification) CLASSIFICATION:

P3A (Continued)	SSIFI	Eυ																			
MODELS OF SYSTEMS AF	FECT					d MOI	DIFIC	ATION TI	ΓLE:	ACLS M	od Ki	ts Summa	ary (PN	l408)							
INSTALLATION INFORMAT	ION:	sele	cted s	hore site	S.																
MET 100 05 MD1 5M5MT					_																
METHOD OF IMPLEMENTA	ATION	: Alter	ation	Installatio	on Tea	<u>ım</u>															
ADMINISTRATIVE LEADTII	ΜE:		Var.			PRODUC	TION	LEADTIN	ΛE:	Var.											
001170407-04750		<u></u>			_				-				<b>5</b> ) / 00	o=		. ,					
									_			-					_				
DELIVERY DATE:	Intinued)  S OF SYSTEMS AFFECTED: CVs/CVNs, LHAs, LHDs and selected shore sites.  ATION INFORMATION:  D OF IMPLEMENTATION: Alteration Installation Team  STRATIVE LEADTIME: Var. PRODUCTION LEADTIME: Var. FY 2005: Var.  ACT DATES: FY 2003: Var. FY 2004: Var. FY 2005: Var.  RY DATE: FY 2003: Var. FY 2004: Var. FY 2005: Var.  S in Millions)  Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  Qty \$																				
	ALLATION INFORMATION:   Alteration Installation Team   MODIFICATION TITLE:   ACLS Mod Kits Summary (PN408)																				
Cost:	Continued   Cont																				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	1
PRIOR YEARS	3	2.433	14	0.251	1	0.095	12	0.060	1	0.059									31	2.898	1
FY 2003 EQUIPMENT			37	0.015			4	0.010											41	0.025	1
FY 2004 EQUIPMENT							8	0.142											8	0.142	1
FY 2005 EQUIPMENT	FECTED: CVs/CVNs, LHAs, LHDs and selected shore sites.  ION:  Alteration Installation Team  ME: Var. PRODUCTION LEADTIME: Var.  FY 2003: Var. FY 2004: Var. FY 2005: Var.  FY 2003: FY 2004: Var. FY 2005: Var.  FY 2003: FY 2004 FY 2004 FY 2005 FY 2005 Var.  Sin Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 TO Complete Total  Qty \$ Qt																				
FY 2006 EQUIPMENT									1	0.020	6	0.124							7	0.144	1
FY 2007 EQUIPMENT											1	0.001			1	0.033	6	0.104	8	0.138	1
FY 2008 EQUIPMENT																					1
FY 2009 EQUIPMENT																	2	0.043	2	0.043	1
TO COMPLETE																	2	0.018	2	0.018	1
INSTALLATION SCHEDI FY 2002 & Prior	1	2 3	03		2	3 4	1 12	2 3		1 2	3		2	3 4	1	2 3	2	0.018 FY 1 2	2 2009 3	0.018	
in i 11	11 1	10 33		4    0		∠ 0	12	0 5	U	1 y 1	U	ס ון ו	U					-			
		44 47		44 II ^	4	0 0	7	40 40	^	^ -	^		•	2 4 1	^	0 0	^	4 ^	^	^	

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CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVID	JAL I	MODIFIC	MOITA	N														
MODELS OF SYSTEM AFFECTED:		and selecte	ed	_	Flight	Safety			_		MOE	DIFICATION	N TITLE:	AN/SPN	N-46(V)3	PIP Mod	Kit (P	N408)		
	shore sit	es.		_																
DESCRIPTION/JUSTIFICATION:																				
This modification corrects parts obsolesce	ence probl	ems and e	ennan	ces main	tainab	ility. The	e inver	ntory obje	ective	for this i	tem is	thirteen, c	it which (	eleven a	re OPN-ti	unded ar	nd two	SCN-fu	inded.	
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILESTO	ONES	:	Produ	ıction EC	Р арр	proved 9/	96			-								
	<u>Prio</u> QTY	<u>r Years</u> \$	<u>F\</u> QTY	<u>/ 2003</u> \$	<u>FY</u> QTY	<u>2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>F\</u> QTY	<u>/ 2006</u> \$	<u>F</u> QTY	Y 2007 \$	<u>FY</u> QTY	2008 \$	<u>FY :</u> QTY	2009 \$		<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)				·		·		·		,				,				·		
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	11	23.523																	11	23.523
Equipment "B"																				
ECP 1 Grp "B"																				
ECP 2 Grp "B"																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.050																		0.050
PRODUCTION ENGINEERING		0.200		0.073																0.273
QUALITY ASSURANCE	1	0.020		0.050											1		1		1	0.070
ACCEPTANCE, TEST & EVALUATION															<u> </u>					
INITIAL TRAINING		0.003													<u> </u>					0.003
INTERIM CONTRACTOR SUPPORT															<u> </u>					2.230
INSTALL COST	5	5.789	3	3.071	1	1.122	1	1.391	1	1.132					<u> </u>				11	12.505
TOTAL PROCUREMENT	<b>—</b> —	29.585		3.194	•	1.122	<u> </u>	1.391	<u> </u>	1.132	1						1		† • •	36.424
	1	_0.000	·						1		1	1		Exhibit	P-3A (Ind	lividual N	/Indific	ation)	CLA	SSIFICAT

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CLASSIFICATION: UNCLA	SSIFIE	)																					
P3A (Continued)																							
MODELS OF SYSTEMS AF	FECTE	D: <u>CV/C</u>	/N ar	nd selected	shore	sites.		MODIFIC	ATIO	N TITLE:	AN/S	SPN-46(V	')3 PIP	Mod Kit	(PN40	08)							
INSTALLATION INFORMAT	ION:																						
METHOD OF IMPLEMENTA	ATION:	Altera	ation	Installatio	n Tea	<u>m</u>																	
ADMINISTRATIVE LEADTIN	ИЕ:		4	Month	S	PRODUC	TION	LEADTIN	1E: _	16 I	Month	hs											
CONTRACT DATES: DELIVERY DATE:					N/A N/A				<del>-</del>					_									
								(\$ in N	/lillion	ıs)													
Cost:	FFECTED: CV/CVN and selected shore sites.																						
			Qty		Qty		Qty		Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	,	\$	İ		
PRIOR YEARS	5	5.789	3	3.071	1	1.122	1	1.391	1	1.132									11	12.505	ĺ		
FY 2003 EQUIPMENT																					i		
FY 2004 EQUIPMENT																					i		
FY 2005 EQUIPMENT																					l		
FY 2006 EQUIPMENT																					l		
FY 2007 EQUIPMENT																					i		
FY 2008 EQUIPMENT																					İ		
FY 2009 EQUIPMENT																					i		
TO COMPLETE																					i		
INSTALLATION SCHEDU FY 2002 & Prior In 9 Out 5	1 0	2 3 0 1	<u>3</u>	0 1	0	3 4 0 0	0	2 3	0	1 2 0	<u>3</u>	0 0	0	3 4 0 0	0	2 3 0 0	0	1 2 0	0	0	0 11	ĀL —	

Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

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DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

P3A	INDIVIDUAL MOD	DIFICATION	
MODELS OF SYSTEM AFFECTED:	LHA, LHD, MCS-12 and	Flight Safety	MODIFICATION TITLE: AN/SPN-35C Upgrade (PN409)

DESCRIPTION/JUSTIFICATION:

This modification improves reliability and maintainability of an aging system baseline. The inventory objective for this item is thirteen, of which twelve are OPN-funded and one SCN-funded. The end-item is an in-house build by NAWCAD St. Inigoes, MD.

LRIP Decision 12/99

DEVELOPMENT STATUS/MAJOR DEVELO	PIVIENT	MILEST	JNE2		LKIP	Decision	12/98	,				•								
	Prior	Years	F١	/ 2003	FY	2004	FΥ	2005	FΥ	2006	F	Y 2007	FY	2008	FY 2	2009		<u>TC</u>	Т	OTAL
	QTY	\$	QTY		QTY	\$	QTY		QTY	\$	QTY		QTY	\$	QTY	\$	QTY		QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS NRE																				
INSTALLATION KITS																				
EQUIPMENT NRE																				
EQUIPMENT	3	4.584			1	1.382	2	2.777	2	2.824	2	2.873			1	1.489	1	1.516	12	17.445
Equipment "B"																				
Antenna Pedestal Mod Kit 1/					3	0.722	2	0.182	2	0.185	2	0.188			1	0.097	2	0.182	12	1.556
LRIP Upgrade /2			1	0.273															1	0.273
DATA																				
TRAINING EQUIPMENT 3/	Var.	1.057																		1.057
SUPPORT EQUIPMENT																				
INTEGRATED LOGISTICS SUPPORT		0.899		0.300		0.574		0.521		0.579		0.278		0.070		0.148				3.369
PRODUCTION ENGINEERING		1.328		0.711		0.262		0.528		0.549		0.553				0.296				4.227
QUALITY ASSURANCE		0.005				0.206		0.387		0.378		0.049		0.050						1.075
ACCEPTANCE, TEST & EVALUATION		1.920		0.222		0.004														2.146
INITIAL TRAINING				0.025																0.025
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		0.814	1	0.994	3	2.182	2	2.325	5	7.094	4	4.645	4	3.622		0.280	5	5.078	24	27.034
TOTAL PROCUREMENT		10.607		2.525		5.332		6.720		11.609		8.586		3.742		2.310		6.776		58.207

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Exhibit P-3A (Individual Modification) CLASSIFICATION:

**UNCLASSIFIED** 

2/ LRIP Upgrade is required to bring an LRIP unit up to the production baseline. This upgrade to an in-production unit has no installation requirement.

3/ Equipment is a set of Pre-Faulted Modules.

<sup>1/</sup> The Antenna Pedestal Mod Kit includes a yoke modification and radome replacement. These will install concurrently with the main EQUIPMENT units, except for one retrofit to cover the previous FY 2003 EQUIPMENT installation.

CLASSIFICATION: UNCLA	SSIFI	ED																				
P3A (Continued)																						-
MODELS OF SYSTEMS AF	FECT			MCS-12 a				MODIFIC	ATIO	N TITLE	: <u>AN/</u>	SPN-35C	Upgra	de (PN40	09)							
INSTALLATION INFORMAT	ION:																					
METHOD OF IMPLEMENTA	ATION:	Alter	ation	Installatio	n Tea	<u>m_</u>																
ADMINISTRATIVE LEADTIN	ИЕ:		2	Month	S	PRODUC	TION	LEADTIN	1Ε: _	18 **	Montl	hs										
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			N/A N/A			FY 2004: FY 2004:	-	3/04 8/05			FY 20 FY 20			12/04 5/06	- -					
								(\$ in <b>N</b>	Million	ıs)											_	
Cost:		or Years		Y 2003		Y 2004		Y 2005		Y 2006		Y 2007		2008		2009		omplete		Total		
	Qty		Qty		Qty	\$	Qty	\$	Qty		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	_	
PRIOR YEARS	AP	0.814	1	0.994	1	1.949			1	2.364									3	6.121	4	
FY 2003 EQUIPMENT						0.000	_	0.005											4	0.550	4	
FY 2004 EQUIPMENT					2	0.233	2	2.325	4	4 700									4	2.558	4	
FY 2005 EQUIPMENT									4	4.730	1	4 645							4	4.730	4	
FY 2006 EQUIPMENT FY 2007 EQUIPMENT	1										4	4.645	4	3.622					4	4.645 3.622	4	
FY 2007 EQUIPMENT													4	3.022					4	3.022	-	
FY 2009 EQUIPMENT															AP	0.28	2	2.414	2	2.694	-	
TO COMPLETE															7 (1	0.20	3		3		1	
INSTALLATION SCHEDU FY 2002 & Prior In 0 Out 0		FY 200 2 3 0 1 0 1	3	4 1 0 0 0 0	FY 2 2 1 0	$     \begin{array}{c c}       004 \\       \hline       3 & 4 \\       0 & 2 \\       0 & 3     \end{array} $	1 1 0	FY 2005 2 3 0 0 0 1	4 1 1	FY 1 2 1 0 1 0	2006 3 4 4	4 1 0 0 0 0	FY 20 2 0 0	007 3 4 4 0 4 0	1 0 0	FY 2008 2 3 0 4 0 2	4 0		2009 3	4 0	TC TOTAL 5 24 24	
																		idual Ma				

PAGE NO. 4G

\*\* Production lead time is 18 months, beginning with the FY 2004 purchase.

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	INIDIA		40DIE:0	ATIO															
	INDIVID	UAL I	MODIFIC	AIIOI	N														
CV/CVN :	and			Fliaht	Safety					MOD	IFICATION	N TITLF	: AN/SPN-	-46(V)3	Life Cycle	e Exte	ension Si	ımmaı	v
		i.	•	·g	- Cu.o.y			-		02									,
		-	•											(, , , , , ,	.,				
is P-3a ar	e for indiv	/idual	modifica	tion pr	ograms t	hat do	not exc	eed \$	5 million	in eith	er budget	year or S	\$10 million	n in all y	ears.				
					Ü									•					
SPMENT	MILEST	DNES		Vario	us Contig	guratio	on Contro	ol Boa	rd appro	vals	•								
Deina	V			Ε.	( 000 4		, 200F			_	V 0007	<b></b>	0000	ΓV	2000		то	-	-OTA1
										_						OTV		_	OTAL \$
	<del>φ</del>	QII	φ	QII	<u>Ψ</u>	Q I I	<u>Ψ</u>	Q I I	Ψ	QII	φ	QII	<u>φ</u>	QII	<u>φ</u>	QII	<u>Ψ</u>	QII	φ
<u> </u>																			
<u> </u>																			
										2	2.307	2		3					14.32
								2	0.212			6	0.660	6					3.369
														1					17.087
								1		1		4		4					12.859
						6	0.574	9	0.669	9		9	0.000	9	0.706	3			3.561
										9	1.546	9	1.576	6	1.070	21	3.811	45	8.003
			0.187		1.148				0.280		0.472		0.931		0.503		CONT.		CONT
	0.100		0.590		4.439		0.090		0.949		0.714		1.495		0.934		CONT.		CONT
					0.415				0.105		0.102		0.405		0.157		CONT.		CONT
																			0.000
						Ì													0.000
1						3	0.094	6	0.193	12	0.753	21	3.692	30	5.279	108	34 050	180	44.06
1 .						_	0.00		0.100		0.7 00					.00	01.000		
i	selected s	CV/CVN and selected shore sites are for individual selected shore sites are for indivi	CV/CVN and selected shore sites.  s P-3a are for individual   DPMENT MILESTONES  Prior Years CTY  QTY \$ QTY	CV/CVN and selected shore sites.  s P-3a are for individual modifical modifi	CV/CVN and selected shore sites.  s P-3a are for individual modification properties.  S P-3a are for individual modification properties.  S P-3a are for individual modification properties.  Vario  Prior Years FY 2003 FY QTY \$ QTY  QTY \$ QTY \$ QTY  O.187	Selected shore sites.  S P-3a are for individual modification programs to the selected shore sites.  S P-3a are for individual modification programs to the selection program program programs to the selection program prog	CV/CVN and selected shore sites.         Flight Safety           S P-3a are for individual modification programs that do           DPMENT MILESTONES:         Various Configuration           Prior Years         FY 2003         FY 2004         FY 2004           QTY         \$ QTY         \$ QTY         \$ QTY           QTY         \$ QTY         \$ QTY         \$ QTY	CV/CVN and   selected shore sites.	CV/CVN and   selected shore sites.   Flight Safety	Flight Safety   Selected shore sites.   Flight Safety	Flight Safety   MODE	Prior Years	S P-3a are for individual modification programs that do not exceed \$5 million in either budget year or selected shore sites.    S P-3a are for individual modification programs that do not exceed \$5 million in either budget year or selected \$5 m	Prior Years   FY 2003   FY 2004   FY 2005   FY 2006   FY 2007   RY 2008   QTY   \$ QT	Flight Safety	Flight Safety   MODIFICATION TITLE: AN/SPN-46(V)3 Life Cycle   Mod Kits (PN410)	Flight Safety   MODIFICATION TITLE: AN/SPN-46(V)3 Life Cycle Extraoelected shore sites.   Flight Safety   MODIFICATION TITLE: AN/SPN-46(V)3 Life Cycle Extraoelected shore sites.   Mod Kits (PN410)	Flight Safety   MODIFICATION TITLE: AN/SPN-46(V) & Life Cycle Extension State	Flight Safety

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OLAGOIFICATIONI, LINGLA	00151																					
CLASSIFICATION: <b>UNCLA</b> P3A (Continued)	SSIFI	ED																				
MODELS OF SYSTEMS AF	FECT					MO	DIFIC	ATION TI					/cle Ex	tension S	Summ	ary						
INSTALLATION INFORMAT	ION:	sele	cted	shore sit	es.					Mod Kits	s (PN4	¥10)										
METHOD OF IMPLEMENTA	TION	l: Alter	ation	n Installa	ion Te	eam_																
ADMINISTRATIVE LEADTIN	ΛE:		Var			PRODUC	CTION	I LEADTII	ME:	Var.												
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:		_	N/A			FY 2004: FY 2004:	-	Var Var			FY 20 FY 20	_		Var. Var.	- -					
			_					(\$ in	_	,						,					1	
Cost:	Pri Qty	or Years	Qty	Y 2003	Qtv	FY 2004 / \$	Qty	Y 2005	Qty	Y 2006 \$	Qtv	Y 2007 \$	Qty	/ 2008 \$	Qtv	2009 \$	To C Qty	omplete \$	Qty	Total \$		
PRIOR YEARS	Qty		Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	ĺ	
FY 2003 EQUIPMENT																					ĺ	
FY 2004 EQUIPMENT							3	0.094											3	0.094	İ	
FY 2005 EQUIPMENT									6	0.193									6	0.193	İ	
FY 2006 EQUIPMENT											12	0.753							12	0.753	İ	
FY 2007 EQUIPMENT													21	3.692					21	3.692	İ	
FY 2008 EQUIPMENT															30	5.279			30	5.279	İ	
FY 2009 EQUIPMENT																	29	7.325	29	7.325	j	
TO COMPLETE																	79	26.725	79	26.725	j	
INSTALLATION SCHEDU FY 2002 & Prior In 0	JLE: 1 0	FY 200 2 3 0 0	<u>)3</u> -	4 1 0 0	2	2004 3 4 0 0	1 1	FY 2005 2 3 1 1	4 0	FY 1 2 2 2	2006 3 2	4 1 0 4	FY 20 2 4	007 3 4 2 2	1 7	FY 2008 2 3 6 4	4	FY:	2009 3 6	4	TC TOTAI	

Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

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## **UNCLASSIFIED**

		DATE:										
			P-	40		4						
APPROPRIATION/BU	DGET ACTIVI	TY			P-1 ITEM NOI	BLI# 284000						
OTHER PROCUREMI	ENT, NAVY/B	A2 - COM	MUNICATIONS	AND ELECTRO	NATIONAL	(42CB)						
Program Element for 0	Code B Items:				Other Related Program Elements							
			0204696N		0604504N							
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total	
QUANTITY												
COST												
(In Millions)	\$92.4	В	\$7.0	\$15.9	\$16.1	\$31.3	\$27.8	\$28.4	\$28.9	CONT	CONT	

### **DESCRIPTION:**

The Joint Department of Defense (DOD)/Federal Aviation Administration (FAA) National Airspace System (NAS) modernization program upgrades the DOD Air Traffic Control systems at Approach Control Facilities in concert with the Federal Aviation Administration's (FAA) upgrade of the National Air Traffic Control System. Since existing DOD Air Traffic Control facilities interface with the FAA's facilities, the military must maintain interoperability and retain vital special-use airspace for combat readiness training. These funds will procure Air Traffic Control hardware for the Navy/Marine Air Traffic Control facilities.

The Air Force is the DoD lead activity for the Joint Acquisition Program. The Joint Program Office (JPO) is located at Hanscom AFB, MA.

FY 05 provides funding to procure: 3 DAAS; 1 DASR; and 4 Tower Automation Systems.

P-1 SHOPPING LIST

ITEM NO. 60

PAGE NO. 1

CLASSIFICATION:

**UNCLASSIFIED** 

DD Form 2454, JUN 86

### CLASSIFICATION: UNCLASSIFIED

		BUDGE	T ITEM JUSTIFICA	ATION SHEET FO	R AGGREGATED	ITEMS			DATE:		
			P-4	10a					February 2004		
APPROPRIATION/BUDGET ACT	IVITY						P-1 ITEM NOME	NCLATURE			
OTHER PROCUREMENT, NA	AVY/BA	2 - COMMU	INICATIONS ANI	D ELECTRONIC	S EQUIPMENT		NATIONAL AIR	RSPACE SYST	EM (NAS)		(42CB)
Day our and the man	ID	Prior	EV 2002	EV 2004	EV 2005	EV 0000	EV 2007	EV 2000	EV 0000	To	Tatal
Procurement Items CB010 DOD ADVANCED	Code B	Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
AUTOMATION SYS	В										
QTY		16		1	3					9	29
FUNDING		17.207		1.036	6.038					11.929	36.210
CB020 MILITARY AIR SPACE	В	17.201		1.000	0.000					11.020	00.210
MANAGEMENT SYS											
QTY		60									60
FUNDING		0.948									0.948
CB030 RADAR (DASR)	В										
QTY		11		1	1					13	26
FUNDING		26.866		3.486	3.037					38.466	71.855
CB040 TOWER AUTOMATION	В	0.0								10	0.0
QTY		22 5.203		1	4					12	39 9.092
FUNDING		5.203		0.677	1.251					1.961	9.092
OTHER COSTS		42.161	7.018	10.736	5.796					CONT	CONT
					000					00	00.11
TOTAL FUNDING		92.385	7.018	15.935	16.122					CONT	CONT
_											
								İ			
					P-1 SHOPPING I			CLASSIFICATION		UNCL ASSIFIED	

P-1 SHOPPING LIST CLASSIFICATION: UNCLASSIFIED

DD Form 2454, JUN 86 ITEM NO. 60 PAGE NO. 2

# **UNCLASSIFIED**

	WEAPONS SYS		IALYSIS			Weapon Sy	/stem				DATE:	
		P-5					•				February 2	004
_	TION/BUDGET ACTIVITY					ID Code	P-1 ITEM NO	MENCLATURE	/SUBHEAD			
OTHER PRO	CUREMENT, NAVY		MUNICATIONS									
		ELECTRON	IICS EQUIPMEN			В	NATIONAL	_ AIRSPACE	SYSTEM (	NAS) (42CB)		
			TOTAL COST IN	THOUSANDS	S OF DOLLARS							
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
CB010 CB020	DOD ADVANCED AUTOMATION SYS MAMS	B B	17,207 948				1	1,036	1,036	3	2,013	6,038
CB030 CB040 CB800 CB830 CB900 CB990	RADAR (DASR) TOWER AUTOMATION INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING INSTALLATION (NON-FMP) INITIAL TRAINING  and resulting unit costs vary by site size and	B B N/A N/A N/A	26,866 5,203 3,319 17,774 20,813 255	nowo represent	s average cost	733 3,009 3,276		3,486 677	3,486 677 845 5,185 4,706	1 4	3,037 313	3,037 1,251 514 2,701 2,581
			92,385	-	-	7,018	:		15,935			16,122

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 60

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CLASSIFICATION: UNCLASSIFIED

# **UNCLASSIFIED**

BUDGET PROC	CUREM	ENT HISTO	ORY AND P	LANNING EXHIBIT	Γ (P-5A)		Weapon System		A. DATE	Februa	ry 2004
B. APPROPRIATION OTHER PROCU				BA2 - COMMUNIC		C. P-1 ITEM NO	DMENCLATURE AIRSPACE SYSTEM	I (NAS)		SUBHEAD	(42CB)
Cost Elemen FISCAL YEA		QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
CB010 DOD ADVAI AUTOMATION S\ 1/			1036 2013	FAA, WASH DC FAA, WASH DC	03/96 03/96	IPR/OPTION IPR/OPTION	RAYTHEON, MA RAYTHEON, MA	02/04 01/05	01/05 01/06	YES YES	
CB030 RADAR (DA 2/ CB040 TOWER	ASR) FY04 FY05		3486 3037	USAF,Hanscom, MA USAF,Hanscom, MA	02/96 02/96	MIPR/OPTION MIPR/OPTION	- , -	04/04 01/05	01/06 01/07	YES YES	
AUTOMATION 3/	FY04 FY05		677 313	SPAWAR, CHASN SPAWAR, CHASN	N/A N/A	PO/ D.O. PO/ D.O.	PEN-TECH CHASN, SC PEN-TECH CHASN, SC	04/04 01/05	01/05 01/06	YES YES	

#### D. REMARKS

<sup>1/</sup> DOD Advanced Automation System (DAAS) unit costs vary per site. P-5 page unit cost is only average of sites each year. Delivery dates are for Navy DAAS.

<sup>2/</sup> RADAR is Digital Airport Surveillance Radar (DASR).

<sup>3/</sup> Tower Automation is a Government proprietary system and unit costs vary per site.

P3A		INDIVID	UAL I	MODIFICA	TION															
MODELS OF SYSTEM AFFECTED:	NAS		TYPI	E MODIFIC	CATION:		SAFE	TY			_		MOD	IFICATION	ON TITL	<u> </u>		OVANCE		MATION
DESCRIPTION/JUSTIFICATION:  The DOD Advanced Automation System (In the systems will be installed at Navy Air The and displays for tower and approach control	raffic Con																onal Air		ntrol Sys	
DEVELOPMENT STATUS/MAJOR DEVELOP	MENT M	ILESTON	ES:		MILES	TONE III	(Marc	h 2004)		<u>-</u>										
	<u>Prior</u> QTY	Years \$	E QTY	Y 2003 \$	<u>FY</u> QTY	<u>2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>FY</u> QTY	2006 \$	<u>FY</u> QTY	2007 \$	<u>FY</u> QTY	2008 \$	<u>FY:</u> QTY	2009 \$	QTY	<u>rc</u> \$	<u>T(</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)														· · · · · · · · · · · · · · · · · · ·				Ī		
RDT&E																				
PROCUREMENT																			i	
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																			i	
EQUIPMENT	16	17.207			1	1.036	3	6.038									9	11.929	47	36.210
Equipment "A"																			1	
Equipment "B"																			1	
ECP 1 Grp "A"																		CONT		CONT
DATA																			1	
TRAINING EQUIPMENT																			1	
SUPPORT EQUIPMENT																		1	1	
PE		5.552		0.720		1.654		1.236										CONT	1	CONT
ILS		1.177		0.231		0.343		0.202										CONT		CONT
TRAINING		0.255																		0.255
OTHED														•					1	

1.464

8.940

PAGE NO.

5

CLASSIFICATION: UNCLASSIFIED

INTERIM CONTRACTOR SUPPORT

12

14.975 AP

39.166

0.273

1.224

4

1.809

4.842

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**INSTALL COST** 

TOTAL PROCUREMENT

CLASSIFICATION: Exhibit P-3A (Individual Modification)

**UNCLASSIFIED** 

10.077

CONT

47

28.598

CONT

12

CLASSIFICATION: UNCL	ASSIF	FIED																			
P3A (Continued)																					
MODELS OF SYSTEMS A	AFFEC	TED:	NAS	MO	DIFICA	TION TITL	.E:	DO	D ADVA	NCED AU	TOMATIC	ON SYSTE	MS (CB0	10)			-				
INSTALLATION INFORMA	ATION	:																			
METHOD OF IMPLEMEN	TATIO	N:	AIT																		
ADMINISTRATIVE LEAD	TIME:	3	months		_		PROI	DUCTION	LEADT	IME:		12 mor	nths		-						
CONTRACT DATES: DELIVERY DATE:				N/A N/A						1/04	_ _			1/05							
																					=
Cost:										2006		2007		2008							
							Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	ļ.,,		_
PRIOR YEARS	12	14.975	AP	0.273	4	1.809													16	17.057	
FY 2003 EQUIPMENT																					4
							1	1.464	_	0.000											4
									3	3.288	0	4.057									4
											ь	4.257	6	2.245							4
													b	3.213	3	2 270					4
FY 2009 EQUIPMENT				1											3	2.210	3	3 166			-
TO COMPLETE																	9	6.911	9	6.911	1
	DO OF IMPLEMENTATION: AIT  INSTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months  RACT DATES: FY 2003: N/A FY 2004: 1/04 FY 2005: 1/05  ERY DATE: FY 2003: N/A FY 2004: 1/05 FY 2005: 1/06    Sin Millions																				

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

<sup>7</sup> 3A		וטועוטעו	JAL MO	DIFICATI	ION															
MODELS OF SYSTEM AFFECTED:	NAS		TYPE N	MODIFICA	ATION:		SAFE	ETY			_		MODIF	CATIO	N TITLE:		RADAR	(DASR)	(CB030)	
DESCRIPTION/JUSTIFICATION:																				
The Digital Airport Surveillance Radar (Download) will be installed at Navy air traffic control to																	raffic Coi	itrol Syste	m. The [	DASR
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT	MILESTO	NES:		MILEST	ONE III (	Nove	mber 200	4)	-										
	<u>Prior</u> QTY	r Years \$	<u>FY</u> QTY	2003 \$	<u>FY</u> QTY	2004 \$	<u>F\</u> QTY	<u>/ 2005</u>	<u>FY</u> QTY	2006 \$	<u>FY</u> QTY	2007 \$	<u>FY</u> QTY	2008 \$	<u>FY</u> QTY	2009 \$	QTY	<u>гс</u> \$	TC QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)						<u> </u>		1		1			1			1				•
RDT&E																				
PROCUREMENT																			-	
INSTALLATION KITS																			-	
INSTALLATION KITS NRE																			-	
EQUIPMENT NRE																			-	
EQUIPMENT	11	26.866			1	3.486	1	3.037									13	38.466	26	71.855
Equipment "A"																			-	
Equipment "B"																			-	
DATA																			-	
TRAINING EQUIPMENT																		1		
SUPPORT EQUIPMENT																			-	
PE		5.331		0.610		0.741		0.658										CONT	-	CONT
ILS		1.134		0.294		0.315		0.181										CONT	-	CONT
RAINING																		1		
OTHER																			-	
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	2	4.700	4	2.180	3	2.053	0	0.742									21	12.533	30	22.208
TOTAL PROCUREMENT		38.031		3.084		6.595		4.618										CONT		CONT
								•			•		Exhibit	P-3A (Ir	dividual	Modificat	ion)	CLASSII	FICATION	l:

PAGE NO.

ITEM NO. 60

5B

CLASSIFICATION: UNCLASSIFIED

**UNCLASSIFIED** 

Exhibit P-3A (Individual Modification)

P3A (Continued)																				
MODELS OF SYSTEMS AFFE	ECTED:		NAS	MC	DDIFIC	CATION T	ITLE:	RADAR (	DASR	) (CB030	))									
INSTALLATION INFORMATIO	ON:																			
METHOD OF IMPLEMENTAT	ION:		AIT																	
ADMINISTRATIVE LEADTIME	≣:	3	Months	3	_						PRO	DDUCTIO	N LE	ADTIME:		<u>24 Mon</u>	ths_			
CONTRACT DATES:			FY 20			N/A	_	FY 20			1/04			2005:		1/05	_			
DELIVERY DATE:			FY 20	03:		N/A	_	FY 20	04:		1/06	<u> </u>	FY	2005:	1	1/07	-			
								(\$ in M	llions)											
Cost:	Prio	r Years	F	Y 2003	F	Y 2004		FY 2005		Y 2006	F	Y 2007	F	Y 2008	FY	2009	To Co	mplete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	2	4.700	4	2.180	3	2.053													9	8.933
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT							AP	0.742	1	0.400									1	1.142
FY 2005 EQUIPMENT							1		AP	0.111	1	0.812	1						1	0.923
FY 2006 EQUIPMENT											AP	0.824	4	1.087		0.000			4	1.911
FY 2007 EQUIPMENT			ļ		-		<u> </u>						AP	0.841	2	0.822	_	0.000	2	1.663
FY 2008 EQUIPMENT			ļ				<u> </u>								AP	1.718	4	3.263	4	4.981
FY 2009 EQUIPMENT TO COMPLETE			1														4 13	2.497 6.773	13	2.497 6.773
TO COMPLETE							1										13	0.773	13	0.773
INSTALLATION SCHEDUL	.E:																			
FY 2002		FY 2003		FY	2004		FΥ	2005		FY 200	6	FY	2007		FY 20	008	1 [	FY 2009	9	TC
& Prior	1	2 3	4	1 2		4   1	2		.    1	2 3		1 2		4 1	2	3 4	1	2 3		
In 9	0	0 0	0	0 0		0 0	0	$-\frac{3}{0}$ $\frac{4}{0}$	0	1 0		0 1		0 0	2	2 0	0	2 0		21
	0	1 2	1	0 1	1	1   0	0	0 0	0	0 1	0	0 0	1	0 0	0	2 2	0	0 2	0	21

ITEM NO. 60 PAGE NO. 5C

Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVIDU	JAL MOI	DIFICAT	ON															
MODELS OF SYSTEM AFFECTED:	NAS		TYPE M	ODIFICA	TION	:	SAFETY	<u> </u>			_		MODIFI	CATION	TITLE:		TOWER	RAUTOM	ATION (	(CB040)
DESCRIPTION/JUSTIFICATION:																				
The Tower Automation is being develope installed at Navy air traffic control facilitie															fic Contro	l Systen	n. The To	ower Auto	mation v	will be
L DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT	MILESTO	NES:		AAP	PRODU	CTION D	ECISION	l (Sept	ember 2	2002)				_					
	<u>Prior</u> QTY	Years \$	FY 2 QTY	2003 \$		<u>/ 2004</u> \$	FY 2	2005 \$	<u>FY</u> QTY	2006 \$	<u>FY</u> QTY	2007 \$	FY 2 QTY	2008 \$	FY 2 QTY	2009 \$	QTY	<u>C</u> \$	TC QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)				Ī				1		, , , , , , , , , , , , , , , , , , ,					<u> </u>	<u> </u>	<u> </u>			<u> </u>
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																		<b>†</b>	i	
EQUIPMENT NRE																				
EQUIPMENT	22	5.203			1	0.677	4	1.251									12	1.961	39	9.092
Equipment "A"																				
Equipment "B"																				
ECP 1 Grp "A"																		CONT		CONT
DATA																			i i	
TRAINING EQUIPMENT																			i i	
SUPPORT EQUIPMENT																				
PE		6.891		1.679		2.790		0.807										CONT		CONT
ILS		1.008		0.208		0.187		0.131										CONT		CONT
TRAINING																			1	
OTHER																				
INTERIM CONTRACTOR SUPPORT																			i	
INSTALL COST	5	1.138	8	0.823	9	0.844	1_	0.375									15	1.485	38	4.665
TOTAL PROCUREMENT		14.240	_	2.710		4.498		2.564										CONT		CONT

ITEM NO. 60 PAGE NO. 5D

CLASSIFICATION: UNCLA	SSIFIED																				
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECTED:		NA	S MC	DIFIC	CATION T	TLE:	TOWER AL	JTOMA	ATION (	CB040	)									
INSTALLATION INFORMAT	ION:																				
METHOD OF IMPLEMENTA	ATION:		Αl	Γ																	
ADMINISTRATIVE LEADTIN	ΛE:	3	Mont	ths	PRO	DUCTIO	N LEAD	TIME:	12 M	onths*			_								
CONTRACT DATES: DELIVERY DATE:			2003: 2003:			1/03 1/04	-	FY 2004: FY 2004:			1/04 1/05		FY 20 FY 20		1/0						
								(\$ in Millio													_
Cost:		Years		Y 2003		Y 2004		Y 2005		2006		Y 2007		/ 2008				omplete		Total	
PD10D1/54D0	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	<u> </u>
PRIOR YEARS	5	1.138	8	0.823	9	0.844													22	2.805	ļ
FY 2003 EQUIPMENT																					<u> </u>
FY 2004 EQUIPMENT							1	0.375											1	0.375	ļ
FY 2005 EQUIPMENT									4	0.521	_	0.000							4	0.521	ļ
FY 2006 EQUIPMENT											7	0.888							7	0.888	ļ
FY 2007 EQUIPMENT													5	0.651					5	0.651	<u> </u>
FY 2008 EQUIPMENT															4	0.531			4	0.531	
FY 2009 EQUIPMENT																	3	0.404	3	0.404	<u> </u>
TO COMPLETE																	12	1.081	12	1.081	<u>[</u>
INSTALLATION SCHEDU FY 2002	<u> </u>	FY 2003			<u>2004</u>			<u>2005</u>		FY 200			<u>/ 2007</u>			2008		FY 200	_	<u>TC</u>	TOTAL
& Prior	1	2 3	4	1 2	3	4 1	2	$\frac{3}{2}$ $\frac{4}{2}$	1 1	2 3		1 2	_ 3_	4 1	2	$\frac{3}{3} \frac{4}{0}$	1	2 3	4	45	<u> </u>
In 5	0	3 3	3	3 3	2	0 0	1	0 0	0	2 2		0 3		2 0	2		0	2 2	0	15	58
Out 5	0	3 2	3	0 3	3	3 0	0	1 0	0	0 2	2	0 1	4	2 0	0	2 3	0	0 2	2	15	58
*Production Leadtime va	ries per s	site. Using	g 12 m	onths as an	avera	ige.															

ITEM NO. 60 PAGE NO. 5E

Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

## **UNCLASSIFIED**

			<b>BUDGET IT</b>	TEM JUSTI	FICATION S	SHEET				DATE:		
				P-40	)					Feb	ruary 2004	
APPROPRIATION/BUDG	GET ACTIVITY							P-1 ITEM NON	MENCLATURE:	BLI 2	84500	
OTHER PROCUREME	ENT, NAVY/ B	A2-COMMU	<b>NICATIONS</b>	AND ELEC	TRONIC EQU	JIPMENT		AIR	STATION ATO	<b>EQUIPMENT</b>	「* (42MR)	
Program Element for Cod	de B Items:							Other Related	Program Elements	S		
			No	ot Applicat	ole				0	204696N		
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total	
QUANTITY												
(In Millions)	\$127.9	N/A	\$6.8	\$7.5	\$3.6	\$0.0	\$0.0	\$0.0	\$0.0	CONT	CONT	

#### DESCRIPTION:

The Chief of Naval Operations (CNO) tasked the Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that is required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used at Navy and Marine Corps Aviation Shore activities in the continental United States and overseas.

- (1) Communications Systems Upgrade Program This program procures and installs advanced, commercial state-of-the-art, ATC voice switching and recording/reproduction equipment which will be used to replace aging AN/FSA-52/58 and OJ-314 voice communication switching systems and the RD-379/379A/390 and RP-214 recorder/reproducers. Existing equipment use 1950's toggle switch & 1960's push-button analog technology that is becoming logistically unsupportable.
- (2) UHF/VHF Radio Replacement Program This program modernizes unsupportable Navy and Marine Corps UHF/VHF voice communication transmitter and receiver equipment. This equipment is the central core of all critical Air Traffic Control communications. This program is replacing the aging AN/GRT-21/22 VHF/UHF (10 watt) transmitters, AM-6154/GRT-21 & AM-6155/GRT-22 VHF/UHF (50 watt) Linear Power Amplifiers, and AN/GRR-23/24 VHF/UHF receivers. Replacement of these radios is the number one ATC priority of both the Fleet and OPNAV Sponsor. This is a safety-of-flight issue.
- (3) Engineering Change Proposal (ECP)/Operational Capability Improvement Request (OCIR) modernization: The ECP/OCIR program provides for the procurement, and or modification, of critically needed communications, radar, displays, data processors, and other electronic systems/equipment needed at Navy/Marine Corps Air Traffic Control facilities worldwide. ECP/OCIR procurements replace and modernize costly-to-maintain systems and equipment in order to increase Air Traffic Control efficiency and safety, improve affordable readiness, and reduce total ownership costs.

FY 05 funds will procure: 428 UHF/VHF Radio Replacements (MR407).

\*Note: P-1 item nomenclature changed to Air Station ATC Equipment, formerly Air Station Support Equipment.

P-1 SHOPPING LIST

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CLASSIFICATION:

UNCLASSIFIED

DD Form 2454, JUN 86

# **UNCLASSIFIED**

	BUDG	ET ITEM JUSTIF	ICATION SHE P-40a	ET FOR AGG	REGATED IT	EMS			DATE:	February 20	104
APPROPRIATION/BUDGET ACTIV	/ITY						P-1 ITEM NO	MENCLATURE:	l .	-	BLI 284500
OTHER PROCUREMENT, NAVY/	BA2-COMMUN	ICATIONS AND ELE	CTRONIC EQUIP	MENT			AIR STATION	ATC EQUIPME	NT (42MR)		
Procurement Items	ID CODE	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
MR069 ECP/OCIR	N/A									+	
QTY		166		1						CONT	CONT
FUNDING		5.979		0.078						CONT	CONT
MR407 UFH/VHF RADIO REPLACEMENT	N/A										
QTY		2312	343	342	428						3425
FUNDING		11.565	1.202	1.781	2.269						16.817
MR408 COMMUNICATION SYSTEM UPGRADE	N/A										
QTY		34	6	9							49
FUNDING		9.719	1.958	2.066							13.743
MR430 FIBER OPTIC	N/A										
INTERSITE UPGRADE											
QTY				1						7	8
FUNDING				0.150						1.176	1.326
MR440 UHF/VHF	N/A				1						
TRANSCEIVER REPLACEMENT	ļ										
QTY	ļ				1					340	340
FUNDING										5.610	5.61
OTHER COST	N/A	100.669	3.676	3.468	1.371		+			CONT	CONT
TOTAL FUNDING	N/A	127.932	6.836	7.543	3.640					CONT	CONT
TOTAL FUNDING	N/A	127.932	6.836		3.640 -1 SHOPPING LIS	T2				CONT	CONT

P-1 SHOPPING LIST

DD Form 2454, JUN 86 ITEM NO. 61 PAGE NO. 2

# **UNCLASSIFIED**

	WEAPONS SYSTEM		SIS			Weapon Sy	stem				DATE:	am. 2004
APPROPR	P-: IATION/BUDGET ACTIVITY	5				ID Code	P-1 ITEM NO	MENCI ATI	JRE/SUBHEA	D.		ary 2004 _I 284500
_	ROCUREMENT, NAVY	BA2 - COM	MMUNICATIONS	SAND		ID OOGC	l III Elwiite	JWILITOL/ (TC	JILL OOD IL			_10000
O III LIKI I	NOONEMENT, NAVI		NICS EQUIPME			N/A	AIR STAT	ION ATC	EQUIPMEN	NT (42M	R)	
 ]			TOTAL COST IN		OF DOLLAF		7			· (	,	
COST CODE	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MR069 MR407 MR408 MR430 MR435	ECP/OCIR UHF/VHF RADIO REPLACEMENT COMMUNICATION SYSTEM UPGRADE FIBER OPTIC INTERSITE UPGRADE NEXT GENERATION COMMUNICATION SYSTEM UPGRADE UHF/VHF TRANSCEIVER REPLACEMENT	N/A N/A N/A	5,979 11,565 9,719	343 6	4 326	1,202 1,958	1 342 9 1	78 5 230 150	78 1,781 2,066 150	428	5	2,269
MR800 MR830 MR900	INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING INSTALLATION OF EQUIPMENT INDON-FMP)	N/A N/A N/A N/A	5,546 14,440 29,123			377 675 2,455			330 571 2,338			194 232 822
MR990	INITIAL TRAINING	N/A	1,240			169			229			123
	VARIOUS 1/  1/ The amount identified against this cost element reflects total prior year funding associated with cost elements no longer financed in FY 2002 and beyond		50,320 127,932			6,836			7,543			3,64

DD FORM 2446, JUN 86

P-1 SHOPPING LIST ITEM NO. 61

PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

<b>BUDGET PROCUREM</b>	ENT HIST	ORY AND	PLANNING EXHIBI	T (P-5A)		Weapon System		A. DATE		
								Fe	bruary 2004	
B. APPROPRIATION/BUDGET					C. P-1 ITEM NOM	IENCLATURE			SUBHEAD	
OTHER PROCUREME	NT, NAVY		- COMMUNICATIO CTRONICS EQUIPI	_		AIR STATION ATC EQUIPM	MENT			MR)
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
MR407 UHF/VHF RADIO REPLACEMENT										
FY04 FY05		5 5	SSC, CHASN, SC SSC, CHASN, SC	06/03 06/03	FFP FFP/OPTION	GENERAL DYNAMICS, SCOTTSDALE AZ* GENERAL DYNAMICS, SCOTTSDALE AZ'	1/04 12/04	05/04 05/05	YES YES	
MR408 COMM SYSTEM UPGRADE										
FY04	9	230	FAA, WASH.,D.C.	02/95	FFP/OPTION	DENRO, GAITHERSBURG, MD	1/04	06/04	YES	

D. REMARKS

MR408 - Communication System Upgrade requirements vary from site to site, which causes equipment size and costs to vary from site to site, average unit costs are shown.

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 61 PAGE NO. 4 Classification:

P3A		INDIVIDU	AL M	ODIFICA	TION															
MODELS OF SYSTEM AFFECTED:	AIR STAT	ION	_	TYPE M	IODIF	ICATION	:	CAPA	BILITY II	MPROVEM	ENT	_	MODIFI	CATION	TITLE:		MR069	ECP/OC	IR	-
DESCRIPTION/JUSTIFICATION:																				
The ECP/OCIR program (MR069) provides for facilities worldwide. ECP/OCIR procurements																				
DEVELOPMENT STATUS/MAJOR DEVI										N/A				_						
	<u>Prie</u> QTY	or Years \$	<u>FY</u> QTY	<u>/ 2003</u> \$	<u>F`</u> QTY	<u>Y 2004</u> \$	<u>F\</u> QTY	/ <u>2005</u> \$	<u>F`</u> QTY	<u>/ 2006</u> \$	<u>FY</u> QTY	<u>2007</u> \$	<u>FY:</u> QTY	2008 \$	FY 2 QTY	2 <u>009</u> \$	QTY	<u>-C</u> \$	TO QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)																				
																				1
RDT&E																				1
PROCUREMENT																				1
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																				
ECP 1 Grp "A"	166	5.979			1	0.078											CONT	CONT	CONT	CONT
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PE		0.040		0.025		0.026														0.091
ILS		0.040		0.040		0.026														0.106
NITIAL TRAINING																				
OTHER		79.870																		79.87
NTERIM CONTRACTOR SUPPORT																				
NSTALL COST	166	10.164			1	0.042				1	1			1				CONT		CON

NOTE: \* The equipment and installation costs represented on this P-3A are for individual modification programs that do not exceed \$5 Million in either budget year or \$10 Million in all years.

CLASSIFICATION: UNCLASS	SIFIED																					
P3A (Continued)						INDIVIDUAL	MODIFIC	CATION (Con	tinued	1)												
MODELS OF SYSTEMS AFFE	CTED	: <u> </u>	AIR	STATION				МО	DIFIC	ATION TITLE:				ECP/OCIF	R (MR0	69)	_					
INSTALLATION INFORMATIO	N:																					
METHOD OF IMPLEMENTAT	ON:		AIT	-																		
ADMINISTRATIVE LEADTIME	:	MONTH:	S (Variou	is)				PRODUCTI	ON LE	ADTIME:			N	MONTHS (Va	arious)							
CONTRACT DATES:		FY 2003:			N/A			FY 2004	4:		N/A			FY 2005:	N	I/A						
DELIVERY DATE:		FY 2003:			N/A		_	FY 2004	1:		N/A			FY 2005:	N	l/A	_					
	, .			-1.4.0000		-1/ 000 /	_		(5	in Millions)		E) / 000E				110000	1	0011DI ETE				
Cost:		Prior Years		Y 2003		Y 2004		Y 2005	Q. 1	FY 2006	0.	FY 2007		Y 2008		Y 2009		COMPLETE		OTAL		
PRIOR YEARS	Qty 166	\$ 10.164	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ 10.164		
FY 2003 EQUIPMENT	100	10.104		-													+ -		100	10.104		
FY 2003 EQUIPMENT	+				1	0.042											-		1	0.042		
FY 2005 EQUIPMENT					- '	0.042													- '	0.042		
FY 2006 EQUIPMENT																	+ +					
FY 2007 EQUIPMENT	1																					
FY 2008 EQUIPMENT																	1 1					
FY 2009 EQUIPMENT																						
TO COMPLETE																	CON	CONT	CONT	CONT		
						•					•	•	•	•		•						
INSTALLATION SCHEDUL								t 1														
FY 2002		FY 2003		2004	FY 200		2006	FY 2007	.	FY 2008		FY 2009	<u>TC</u>	TOTAL								
& Prior	_	2 3 4		3 4 1	1 2 3		3 4	1 2 3	4	1 2 3 4	1	2 3 4										
In 166		0 0 0	0 0					0 0 0	0	0 0 0 0			CONT									
Out 166	0	0 0 0	0 0	0 1 0	0 0	0 0 0	0 0	0 0 0	0	0 0 0 0	0	0 0 0	CONT	CONT								
NOTE: * The equipment and	leteni h	lation costs re	nresente	nd on this P-3	A are for i	individual mo	dification	nrograms that	do no	t exceed \$5 Millio	on in	either hudget v	ear or ¢	10 Million in	all vea							
1107E. The equipment and	ı ii istai	14.1011 00313 10	prosonic	.a on uno 1 -0.	, tale 101 1	marviduai IIIO	amoundii	programs mat	40 110	CONSCIONATION	O11 111 (	ciaici baaget	y car or y	i o iviiiiioii III	un yea						P-3A	
								ITEM I	NO. 61			PAGE 5	5A					CLA	ASSIFI		UNCLASSIFIE	D

OLACOITICATION: LINGLACOITIED																				
CLASSIFICATION: UNCLASSIFIED P3A		INDIVID	IIAI M	DIEICA	TION															
IF3A		יטועוטאוו	UAL IVIC	JUIFICA	IION															
MODELS OF SYSTEM AFFECTED:	AIR STA	TION				TYPE N	ODIF	ICATIO	N:	MODER	RNIZAT	TION		MODIFIC	ATION 1	TITLE: !	JHF/VHF	Radio R	eplacem	<u>ent</u>
													_						(MR40	17)
DESCRIPTION/JUSTIFICATION:																				
Replacement Program - This program mo																				
program is procuring Non-Developmental																				
AM-6154/GRT-21 & AM-6155/GRT-22 VI																				
radio replacement program replaces exist					nnolog	jy, vacuι	ım tuk	oes and	other	out-of-pr	oductio	on comp	onents t	hat cause	numerou	ıs casua	alty repor	ts (CASR	EPs) and	d
logistics supportability problems due to ed	quipment an	d parts ob	solesce	ence.																
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT M	IILESTON	IES:							NDI										
														_						
	Prior	Years	FY	2003	FY	2004	FY	2005	FY	2006	FY	2007	<u>F`</u>	2008	FY	2009		<u>TC</u>	TC	TAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT	2312	11.565	343	1.202	342	1.781	428	2.269											3425	16.817
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PE		0.560		0.193		0.091		0.100												0.944
ILS		0.280		0.050		0.042		0.045												0.417
TRAINING																				
OTHER																				
INTERIM CONTRACTOR SUPPORT	0045	4.046	0.15	0.0==	0.15	0.046	100	0.00:	<u> </u>								1		0.10-	0.40-
INSTALL COST	2312	1.340	343	0.275	342		428	0.284	ļ						-		1		3425	2.109
TOTAL PROCUREMENT		13.745		1.720		2.124		2.698					PAGE					ON: UNC		20.287

\*Prior Year costs and quantities not provided

CLASSIFICATION: UNCLASSI	FIED																			
P3A (Continued)						INDIVIDUAL	. MODII	FICATION (C	ontinue	d)										
MODELS OF SYSTEMS AFFEC	CTED:		AIR STA	TION				МС	DIFICAT	ION TITLE:		UHF/VHF	RADIO	REPLACEM	ENT (N	/IR407)				
INSTALLATION INFORMATION																				
METHOD OF IMPLEMENTATION	N:	AIT					_													
ADMINISTRATIVE LEADTIME:			2 MON					PRODUCT				5 MONTHS	3	_						
CONTRACT DATES:				FY 2003:		12/02			FY 200			/04	_		2005:		12/04			
DELIVERY DATE:				FY 2003: _		4/03			FY 200	4: <u> </u>	4	/04	_	FY 2	2005:		4/05			
									(\$ in Mill	ions)										
Cost:	Prior `	Years	F'	Y 2003	F	Y 2004		FY 2005	F	Y 2006		Y 2007	F	Y 2008		FY 2009	To (	Complete		Total
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	2312	1.340																	2312	1.340
FY 2003 EQUIPMENT			343	0.275															343	0.275
FY 2004 EQUIPMENT					342	0.210													342	0.210
FY 2005 EQUIPMENT							428	0.284											428	0.284
FY 2006 EQUIPMENT									521	0.328									521	0.328
FY 2007 EQUIPMENT											194	0.132							194	0.132
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHEDULE	:																			
FY 2002		FY 20	003		FY 2004		F١	/ 2005		FY 2006		F	Y 2007		<u> </u>	Y 2008		FY 20	09	TC TOTAL
& Prior	1	2 3		1	2 3	4   1	2	3 4	1	2 3	4	1 2	_	4 1	2	3	4 1	2 3	4	IIIC IOIAL
In 2312	0	0 34		0	0 342	0 0	0	428 0	0	0 52		0 0	194	0 0	0	0	0 0	0 0	0	0 4140
Out 2312	0	0 (	343	0	0 0	342 0	0	0 42	8 0	0 0	521	0 0	0	194 0	0	0	0 0	0 0	0	0 4140
1																				P-3A
L								ITE	M NO. 61			PAGE 50	;					CLASSIF	ICATION:	UNCLASSIFIE

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVIDU	AL MODIF	ICATION	1															
MODELS OF SYSTEM AFFECTED:	AIR STATIC	<u>ON</u>		_	TYPE I	MODIFICA	TION:		MODE	RNIZATIO	ON	MODIFICA	ATION TIT	LE: COM	MMUNI	CATION S	YSTE	M UPGF	RADE (	<u>MR408)</u>
Communications Systems Upgrade - Advar systems and the RD-379/379A/390 and RP (CASREPs) and logistics supportability prol contract which was awarded by the FAA to AIR, Inc. by our coordinating field activity, S Air Stations with up to two new recorder/rep	-214 recorder/r plems due to sy Denro, Inc. The PAWAR Charle	reproducer ystem and e recorder/ eston, SC.	s. Existing parts obso reproduce The exist	systems lescence r system ing equip	and equ The vo selected ment is	iipment us ice switch I for use by obsolete a	e 1950's ing syste y the Na ind beco	s toggle sw em selecte vy is a con oming logis	vitch & 1 d for us nmercia tically u	960's pus e by the N I item prod	h-button lavy is a duced by	analog tech Non-Develo Advanced I	nology, ar pmental li ntegrated	e no longe em, devel Recorder	er in pro loped by s, Inc. a	duction, a the FAA and are ob	ind cau via a, f tained	ising nu full and o through	merous o open con a contra	casualty reports apetition, ct awarded to
DEVELOPMENT STATUS/MAJOR DEVELO	OPMENT MILE	STONES:							NDI											
	Prior Years QTY	\$	<u>FY 2</u> QTY	2 <u>003</u> \$	<u>FY</u> QTY	<u>2004</u> \$	FY QTY	/ <u>2005</u> \$	<u>F\</u> QTY	2006 \$	<u>F</u> QTY	<u>/ 2007</u> \$	<u>FY</u> QTY	<u>2008</u> \$	<u>E</u> QTY	Y 2009 \$	QTY	<u>TC</u> ′ \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT	34	9.719	6	1.958	9	2.066													49	13.743
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				1
PE		1.273		0.457		0.268		0.132												2.130
ILS		0.237		0.287		0.192		0.149												0.865
TRAINING		0.401		0.169		0.179		0.123												0.872
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	29	6.464	8	2.180	8	1.991	4	0.538										1	49	11.173
TOTAL PROCUREMENT		18.094		5.051		4.696	1	0.942	1									1		28.783
	•	•	•		•	•	•	•		TEM NO. 61	1	•	PAGE	5D		CLASSIF	ICATIO	NU :NC	CLASSII	FIED

MR408 Equipment size and cost will vary from site to site, applicable installation costs will vary based on equipment size and location of installation, average costs are shown for budgeting and planning purposes.

CLASSIFICATION: UNCLAS P3A (Continued)	011 122					INDIVIDUAL	MODI	FICATION (	Continued)											
MODELS OF SYSTEMS AFF	ECTED:	AIR ST	ATION						MODIFICA	ATION TIT	LE:	COMMU	NICATIO	N SYSTEM	UPGRA	DE (MR408)				
INSTALLATION INFORMATION	ON:																			
METHOD OF IMPLEMENTAT	ION:	AIT																		
ADMINISTRATIVE LEADTIME	Ξ:	3	MONTH	HS			_	PRODU	JCTION LEA	ADTIME:			6 MO	NTHS						
CONTRACT DATES:				FY 2003:		12/	02		FY 20	004:		01/04			FY 200	5:				
DELIVERY DATE:				FY 2003:		6/0	)3		FY 20	004:		6/04			FY 200	5:			_	
									(0:-1	A A CHIC N										
Cost:	l Pr	ior Years		FY 2003		FY 2004		FY 2005		Millions) 2006	Т г	Y 2007	1 1	Y 2008		Y 2009	To C	Complete	1	Total
	Qty	\$	Qty	\$	Qty	\$	Qtv	\$	Qty	\$	Qty	\$	Qty	\$	Qtv	\$	Qty	\$	Qty	\$
PRIOR YEARS	29	6.464	5	1.363		•		<u> </u>		,		<u> </u>		· ·		•		-	34	7.827
FY 2003 EQUIPMENT			3	0.817	3	0.720													6	1.537
FY 2004 EQUIPMENT					5	1.271	4	0.538											9	1.809
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHEDUL FY 2002 & Prior In 29 Out 29			4 2 2	1 2 2 2	Y 2004 2 3 1 3 1 3	4 1 2 2 2 2		FY 2005  2 3 2 0 2 0		1 2 0 0 0	2006 3 0	4 1 0 0 0 0	FY 200 2 0 0	$\frac{07}{3} - \frac{4}{0}$	1 0 0	FY 2008 2 3 0 0 0 0	4 0 0	1 2 0 0 0 0	0	4 TOTAL 0 49 0 49
									ITEM NO.			PAGE	5E				01.400	SIFICATIO		

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVID	UAL MOI	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	AN/FAC-6(V	)1/4 FOIS	3	_	TYPE	E MODIF	FICATIO	DN:	MOD	ERNIZATI	ON	MODIF	ICATIO	N TITLE	: FIBEF	R OPTIC	INTERS	SITE UP	GRADE	(MR430)
This effort will upgrade and replace obsol the AN/FAC-6(V)4 FOIS required for ATC the applicable PAR and ATC voice commagnetic interference (EMI) and radio fre replacement parts for these systems over sustainment of these critical ATC systems accordance with current NAVAIR policies	C voice communication systems to the past five years to the past five years so this upgraded FC	ions at Na by elimina e (RFI). TI . Stock in	aval and Nating equiphe original ventories	Marine ( pment d al equipr of repai	Corps A amage nent ma ir parts	ir Statio and fail anufactu for these	n (NAS/ ures to t irer (OE e syster	/MCAS) fact these critic M-FIBERC ms are bein	cilities val ATC COM) ong rapid	worldwide. systems t f this AN/F dly exhaus	This Foundation This This This This This This This This	DIS equi e previou )1/4 FOI s progra	oment h isly caus S equipi m provid	as subs sed by li ment has des for f	tantially ghtning s filed fo uture log	increase and othe r bankru gistics su	ed the oper source ptcy and pport ar	perational es of high d has not nd contin	al availab h power e t produce nued capa	ility (Ao) of electro- ed any ability
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT MILEST	ONES:				Modifie	ed Comi	mercial-Of	f-The-S	shelf (COT	S)	_								
	Prior Years QTY	\$	FY OTY	2003 \$	FY QTY	<u>2004</u>	OTY	Y 2005 \$	<u>F</u> QTY	Y 2006 \$	<u>FY</u> QTY	2007 \$	<u>FY</u> QTY	2008 \$	<u>FY</u> QTY	2009 \$	QTY	<u>ГС</u> \$	<u>T(</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)			1	<del></del>	1	-	1	<u> </u>	T	<u>, , , , , , , , , , , , , , , , , , , </u>	T		T	<del>-</del>	1	<u> </u>	T	<u> </u>		1
RDT&E																			†	
PROCUREMENT																			1	
INSTALLATION KITS																			1	
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT					1	0.150											7	1.176	8	1.326
DATA																			1	
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PE			İ			0.186													1	0.186
ILS						0.070														0.070
TRAINING						0.050														0.050

0.095

0.551

OTHER
INTERIM CONTRACTOR SUPPORT

INSTALL COST

TOTAL PROCUREMENT

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7 0.693 8

CLASSIFICATION: UNCLASSIFIED

1.869

0.788

2.420

CLASSIFICATION: UNCLASS	SIFIED																				
P3A (Continued)						INDIVIDU	AL M	ODIFICA	TION	(Continued	d)										
MODELS OF SYSTEMS AFFE	ECTED:	AN	/FAC-6(\	V)1/4 FOI	S			_ MC	ODIFIC	ATION TIT	LE:	FIBER	OPTIC	INTERSI	TE UPG	RADE (IN	STALLA	ATION) (MI	R430)		
INSTALLATION INFORMATION INFORMATION OF IMPLEMENTAT		Alte	eration Ir	nstallation	ı Team (A	AIT)															
ADMINISTRATIVE LEADTIME			Months				-	PRODU	CTION	LEADTIM	E:	4	1 Mont	ths							
CONTRACT DATES:		FY 2003:						FY	2004:		1/	04		FY 2005:	<del>-</del> :						
DELIVERY DATE:		FY 2003:						FY	2004:		04	/04	_	FY 2005:		-					
									(¢ i	n Millions)											
Cost:	Prio	or Years	FY	2003	F	′ 2004	F	Y 2005		Y 2006	F	Y 2007	F	Y 2008	FY	2009		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT																					
FY 2004EQUIPMENT					1	0.095													1	0.095	
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT											9	0.845							9	0.845	
FY 2008 EQUIPMENT													9	0.855					9	0.855	
FY 2009 EQUIPMENT															9	0.875			9	0.875	
TO COMPLETE																	7	0.693	7	0.693	
INSTALLATION SCHEDUL	.E:																				
FY2002		FY 2003		<u>F</u>	Y 2004		FY	2005		FY 2006		FY	2007		FY 2	800		FY 2009		TC	
& Prior	1	2 3	4	1 2		4 1	2	3 4		2 3	4	1 2		4 1	2	3 4	1	2 3			TOTAL
In 0	0	0 0	0	0 0	) 1	0 0	0	0 0	0	0 0	0	0 0	9	0 0	0	9 0	0	0 9	0	7	35
Out 0	0	0 0	0	0 0	) 0	1 0	0	0 0	0	0 0	0	0 0	0	9 0	0 0	0 9	0	0 0	9	7	35
																				P-3A	
							ITEM N	IO. 61			P/	AGE 5G						CL	.ASSIF	ICATION: UN	CLASSIFIED

P3A		INDIVID	UAL MOI	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	AIR STA	ATION		_	TYPE M	ODIFIC	CATION:		MODEF	RNIZATI	ON	MODIFIC	ATION T	ITLE:	UFH/\	HF TRANS	SCEIVER I	REPLACE	MENT (M	1R440)
This program modernizes aging Navy and (NDIs) developed by General Dynamics D															gram will	procure No	on-Develop	oment Item	es	
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT	MILESTO	DNES:					NDI												
	<u>Prio</u> QTY	r Years \$	FY 2	2003 \$	FY 2 QTY	2 <u>004</u> \$	<u>FY</u> QTY	2005 \$	FY 2 QTY	2 <u>006</u> \$	<u>FY</u> QTY	<u>2007</u>	<u>FY</u> QTY	2008 \$	<u>F</u> QTY	Y 2009 \$	QTY	<u>TC</u> \$	<u>TC</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																	340	5.610	340	5.610
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PE																		0.188		0.188
ILS																				0.000
TRAINING																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
OTHER INTERIM CONTRACTOR SUPPORT INSTALL COST			1				+										340	0.585	340	0.585

CLASSIFICATION: UNCLAS	SIFIED																					
P3A (Continued)						INDIVIDU	JAL M	ODIFICA	TION (C	Continued	)											
MODELS OF SYSTEMS AFF	ECTED:	AIR	STAT	ION				МО	DIFICA	TION TITL	E:	UFH/VH	HF TRAI	NSCEIVE	R REF	LACEME	NT (MR	440)			_	
INSTALLATION INFORMATION METHOD OF IMPLEMENTATION		Λlto	ration I	nstallatior	Toam	(AIT)																
ADMINISTRATIVE LEADTIM			2 Mont		i reaiii	(AII)	_	PRODU	CTION	LEADTIME			5 month	ne								
CONTRACT DATES:	L.		Z IVIOIT	113	_	FY 2003			N/A	LLADIIIVIL		FY	′ 2004:	13	_ N	I/A		FY 2005:		N	/A	
DELIVERY DATE:						FY 2003			N/A				2004:			I/A	-	FY 2005:			/A	
														_			_			•		
										(\$ i	n Millio	ns)										
Cost:	Prio	r Years	F`	Y 2003	F`	Y 2004	F	Y 2005	F,	Y 2006	F)	Y 2007	F١	/ 2008	F	Y 2009		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						
FY 2003 EQUIPMENT																						
FY 2004EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
FY 2008 EQUIPMENT																			0	0.000		
FY 2009 EQUIPMENT																			0	0.000		
TO COMPLETE																	340	0.585	340	0.585		
INSTALLATION SCHEDUI FY2002 & Prior	2 1	FY 2003 2 3	4	1 2		4 1	2	2 <u>005</u> 3 4	1	FY 2006 2 3	4	1 2		4 1	2	2008 3 4	1	FY 2009 2 3	4		DTAL	
In 0	0	0 0	-	0 0	-	0 0		0 0		0 0	0	0 0		0 0		68 0		0 68	0	1 11	476	
Out 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	0 0	0	34 34	0	0 34	34	340	476	
																				P-3	3A	
							ITEM N	IO. 61			F	Page 5I						CLA	SSIFIC		CLASSIFIED	-

## **UNCLASSIFIED**

	Bl	JDGE1	TITEM JUS	STIFICATIO	N SHEET			DATE:				
			P-40							Februa	ry 2004	
APPROPRIATION/BUDG	GET ACTIVI	TY					P-1 ITEM NO	MENCLATU	RE			
OTHER PROCUREMEN	IT, NAVY/ E	BA2-CO	MMUNICATI	ONS AND EL	ECTRONIC EC	QUIPMENT		<b>LANDING</b>	<b>SYSTEMS</b>	(LS) (42)	K1) BLI#2	84600
Program Element for Co	de B Items:						Other Relate	d Program El	ements			
			<b>Not Applic</b>	cable					<b>Not Applic</b>	cable		
	Prior	ID								То		
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total	
QUANTITY												
COST												
(In Millions)	\$38.3	N/A	\$0.0	\$0.0	\$7.2	\$7.7	\$9.0	\$9.1	\$10.0	\$21.5	\$102.9	

#### **DESCRIPTION:**

The Chief of Naval Operations (CNO) tasked Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that is required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used for ATC&LS by the Navy and Marine Corps. This Landing Systems (LS) 42X1 program, in conjunction with the other three programs (Air Station Support Equipment 42MR, Fleet Area Control and Surveillance Facility (FACSFAC) 42TT, and the National Airspace System Modernization 42CB) which make up program element 0204696N, provide the four pillars by which NAVAIR supports and meets established requirements to modernize and ensure reliable, safe and effective operations of ATC&LS used at Navy and Marine Corps air stations and ATC facilities worldwide.

This Landing Systems (LS) budget provides funding to modernize and ensure the reliability and safety of Precision Approach Radars (PAR), Tactical Air Navigation (TACAN) systems, Instrument Landing Systems (ILS), and other aircraft navigation aids used by the Navy and Marine Corps. This program also ensures that all interservice interoperability requirements identified in the National Airspace System Plan (NASP), the Federal Radio Navigation Plan (FRNP), and the Joint Chiefs of Staff (JCS) master navigation plan are fulfilled.

The Precision Approach Radar (PAR) Upgrade consists of the Modulator Board Upgrade ECP, the Antenna Upgrade ECP, the Configuration Upgrade ECP, the Turntable Upgrade ECP, the Fiber Optic Intersite System (FOIS) ECP, and the Angle Voltage Generator (AVG) Upgrade ECP. The Tactical Air Navigation (TACAN) Sustainment consists of the Antenna Upgrade ECP, the Shelter Upgrade ECP, and the Lightning Protection ECP.

Funding in FY05 will provide 13 PAR Modulator Board Upgrade ECPs, 6 PAR Antenna Upgrade ECPs, 4 PAR Configuration Upgrade ECPs, 4 PAR Turntable Upgrade ECPs, 2 PAR Fiber Optic Intersite System (FOIS) ECPs, 8 PAR Angle Voltage Generator (AVG) Upgrade ECPs, 6 TACAN Antenna Upgrade ECPs, and 2 TACAN Shelter Upgrade ECPs.

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 62 PAGE NO. 1

# **UNCLASSIFIED**

BUD	GET ITE	M JUSTIF	ICATION SI P-40a	HEET FOR A	AGGREGAT	ED ITEMS		DATE:		February 200	1
APPROPRIATION/BUDG	SET ACTIV	/ITY	F -40a				P-1 ITEM NOI	MENCLATURI	=	1 ebidary 200	7
OTHER PROCUREM			COMMUNI	CATIONS A	ND ELECTR			VIETOE/ (TOTAL		SYSTEMS (LS)	(42X1)
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
										,	
X1017 ECP/OCIR		VAR 5.607									0 5.607
X1018 PRECISION					37					146	183
APPROACH RADAR					4.050					23.759	27.809
X1019 TACAN					8 0.880					63 17.286	71 18.166
X1020 ENVIRONMENTAL	N/A										
SHELTERS QTY		42									42
FUNDING		5.787									5.787
X1102 INSTRUMENT LANDING SYSTEM	N/A										
QTY FUNDING		14 3.633									14 3.633
OTHER COSTS	N/A	23.264			2.302					16.289	41.855
TOTAL FUNDING	N/A	38.291			7.232					57.334	102.857
	-										
							CLASSIFICAT	I	<u> </u>	<u> </u>	

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 62 PAGE NO. 2

# **UNCLASSIFIED**

	WEAPONS SYSTE P	M COST ANALY	'SIS			Weapon Sys	tem			DATE:	ebruary 20	04
Other Procu	TION/BUDGET ACTIVITY urement, Navy/ BA-2 COMMUNICATION	S AND ELECTI	RONICS			ID Code	P-1 ITEM NOM					
EQUIPMEN <sup>*</sup>	T	T	Trotal coot in the		25 0011 400	N/A			LANDING SYS	TEMS (LS)	(42X1)	
COST CODE	ELEMENT OF COST	ID Code	Prior Years Total Cost	Quantity	FY 2003 Unit Cost	Total Cost	Quantity	FY 2004 Unit Cost	Total Cost	Quantity	FY 2005 Unit Cost	Total Cost
X1017 X1018 X1019 X1020 X1102 X1800 X1830 X1840 X1900	ECP/OCIR PRECISION APPROACH RADAR TACAN ENVIRONMENTAL SHELTERS INSTRUMENT LANDING SYSTEM INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING QUALITY ASSURANCE ACCEPTANCE, TEST & EVALUATION INSTALLATION (NON-FMP) **VARIOUS	N/A N/A N/A N/A N/A N/A N/A N/A N/A	5,607 5,787 3,633 2,209 3,169 320 15,244 2,322							37 8	110 110	4,050 880 538 970 114 680
			38,291			C	)		0			7,23

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO. 62 PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

<b>BUDGET PROCURE</b>	MENT HISTO	RY AND P	LANNING EXHIBIT	Γ (P-5A)		Weapon System		A. DATE		
								Februa	ry 2004	
B. APPROPRIATION/BUDG					C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Other Procurement,		COMMUNI	CATIONS AND							
ELECTRONICS EQU	JIPMENT				CONTRACT	NG SYSTEMS (LS)		I DATE OF		2X1
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	TECH DATA AVAILABLE NOW ?	DATE REVISIONS AVAILABLE
See Remark.										
D. REMARKS										
ECPs will be assembled u	sing components	procured via	various Purchase Order	S.						

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 62 PAGE NO. 4

P3A		INDIVID	UAL MOD	DIFICATI	ON															
MODELS OF SYSTEM AFFECTED:	AN/EDN	63 DVD	TYPE M		TION		MOD	ERNIZAT	ION				MODI	FICATIO	N TITLE:	ECD.	INCIR Y	1018 AVG	UPGRADI	<b>-</b>
INOBELO OF OTOTEM ALTEOTES.	/3/1/11/19	00 1 AIX	- ' ' ' ' ' ' ' ' '	ODII 107	111011.		IVIOD	LI (14127 (1	1011		-		WODI	10/1110			OOII X	1010 7100	OI OIVIDI	-
DESCRIPTION/JUSTIFICATION:																				
This ECP will replace two obsolete analog A	ngle Voltage	e Genera	tors (AVG	s) with o	ne digital :	state-of-t	the-art A	VG with o	ptical en	coder an	tenna inp	ut posit	ion sens	ors and	provide d	igital dat	ta outputs	that will b	e required	for the
PAR Display Replacement ECP. These kno	wn obsolete	high faile	ure AVG o	compone	nts and as	semblies	s will be	upgraded	or repla	ced usin	g state-of	the-art	commer	cially av	ailable ite	ems to m	aintain re	liability, av	ailability ar	nd
maintainability of the PAR. This ECP will imp	prove the rel	iability, a	vailability	and supp	ortability	of AN/FP	N-63 PA	AR by corr	ecting M	ean Tim	e Betwee	n Failur	e (MTBF	) problei	ms being	caused	by high e	lectronic fa	ailure rates	of the
obsolete AVG assemblies in the AN/FPN-63	PAR and the	nerefore i	mprove ov	erall Op	erational A	Availabilit	ty (Ao) . ·	This ECP	is requir	ed to mo	dernize t	he AN/F	PN -63	PAR to e	ensure rel	iable, sa	ife and ef	fective Lar	nding Syste	m
operations at Naval Air Station (NAS) and M	arine Corps	Air Statio	ons (MCA	S) faciliti	es worldw	ide.														
DEVELOPMENT STATUS/MAJOR DEVELOR	PMENT MIL	ESTONE	S:		Non-E	evelopme	ental Item	n (NDI)												
	Prior `	Vooro	FY 2	2002	FY 2	2004	EV	2005	EV	2006	EV	2007	EV	2008	EV	2009		TC	тот	-ΛI
	QTY	<u>t ears</u> \$	QTY	\$	QTY	\$	QTY	<u>2005</u> \$	QTY	\$	QTY	\$	QTY	\$ \$	QTY	<u>2009</u> \$	QTY	<u>1C</u> ¢	QTY	AL ¢
FINANCIAL PLAN (IN MILLIONS)		T	<u> </u>	l v	1	I	T	T	<u> </u>	T T	1	l v	T	T T	T	T T	<u> </u>	<u> </u>	<u> </u>	┰
RDT&E													+		-					<del>+</del>
PROCUREMENT																				+
INSTALLATION KITS																				+
INSTALLATION KITS NRE																				+
EQUIPMENT NRE																				+
EQUIPMENT																				1
ECP - Angle Voltage Generator Upgrade							8	1.544												<u> </u>
DATA																				t
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING								0.092												
INTEGRATED LOGISTICS SUPPORT QUALITY ASSURANCE								0.046												

Exhibit P-3A (Individual Modification)

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1.694

INTERIM CONTRACTOR SUPPORT

OTHER

INSTALL COST TOTAL PROCUREMENT

CLASSIFICATION: UNCLAS	SIFIED																				
P3A (Continued)																					
MODELS OF SYSTEMS AFF	ECTED:	FP	N-63 PA	R	MODIFIC	CATION 1	ΓITLE:	ECP/O	CIR X1	018 AV	G UPG	SRADE					_				
INSTALLATION INFORMATION	ON:																				
METHOD OF IMPLEMENTAT	ΓΙΟΝ:		AIT																		
ADMINISTRATIVE LEADTIM	E:		2 Mon	ths	PRO	ODUCTIO	N LEA	ADTIME:	6	Months											
CONTRACT DATES: DELIVERY DATE:			FY 200 FY 200			N/A N/A	_	FY 200 FY 200			N/A N/A		FY 2 FY 2			N/A N/A	_				
								(\$ in M													1
Cost:		r Years		Y 2003		Y 2004		Y 2005		2006		Y 2007		Y 2008		Y 2009		omplete		Total	1
PRIOR VEARS	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	1
PRIOR YEARS													ļ								1
FY 2003 EQUIPMENT							_														1
FY 2004 EQUIPMENT FY 2005 EQUIPMENT							+ -		0	0.207									0	0.207	ł
FY 2006 EQUIPMENT									8	0.397	9	0.457	-		_				8	0.397 0.457	İ
FY 2007 EQUIPMENT					-				-		9	0.437	9	0.468	+				9	0.468	İ
FY 2008 EQUIPMENT													3	0.400	9	0.480			9	0.480	İ
FY 2009 EQUIPMENT																0.400	9	0.487	9	0.487	İ
TO COMPLETE																	+ -	0	<u> </u>	0.101	İ
INSTALLATION SCHEDUI FY 2002 & Prior In 0 Out 0	1 0 0	FY 200 2 3 0 0 0 0	3 4 0 0	1 0 0	EY 2004 2 3 0 0 0 0	4 1 0 0 0 0	0	2005 3 4 8 0 0 0	1 0 0	FY 2006 2 3 0 9 2 3	6 4 0 3	1 2 0 0 0 3	Y 2007 3 9 3	4 0 (	0 0	2008 3 4 9 0 3 3	0	FY 2009 2 3 0 9 3 3	4	0 9	TOTAL 44 44

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVID	UAL MOI	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	AN/FPN-	63 PAR	TYPE M	ODIFICA	ATION:		MODE	RNIZATI	ON		_		MODIF	FICATIO	N TITLE:	ECP/	OCIR X	1018 FC	IS	
DESCRIPTION/JUSTIFICATION:																				
This ECP will improve the reliability, availability a	nd supporta	ability of t	he existin	g AN/FP	N-63 Pre	ecision A	pproach	Radar (P.	AR) syst	em via ar	n upgi	ade and	replace	ement of	its inters	ite coppe	r-cablin	g with sta	ate-of-	the-art
AN/FAC-6(V)1 fiber optic intersite systems (FOIS	). The use	of AN/FA	C-6(V)1 F	OIS equ	ipment v	vith exis	ting AN/F	PN-63 PA	AR syste	ms has p	rovide	ed substa	ntially	increase	d PAR o	perationa	l availab	ility (Ao)	by	
eliminating equipment damage and failures cause																CP is requ	ired to r	moderniz	e the	
AN/FPN -63 PAR to ensure reliable, safe and effe	ective PAR	Landing	System o	perations	at all N	aval Air	Station (N	IAS) and	Marine (	Corps Air	Statio	ons (MCA	NS) faci	lities wor	rldwide.					
DEVELOPMENT STATUS/MAJOR DEVELOPME	NT MILEST	ONES:			Non-	Developn	nental Item	(NDI)												
						•		` '		-										
	Prior \			2003		<u> 2004</u>		<u> 2005</u>		<u> 2006</u>		<u> 2007</u>		2008		2009		<u>rc</u>	_	<u> JATC</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																			T I	
EQUIPMENT NRE																				
EQUIPMENT																				
ECP - Fiber Optic Intersite System							2	0.169	3	0.255	3	0.255	3	0.265	3	0.275			14	1.219
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING								0.031		0.032		0.033		0.034		0.034		0.053		0.217
INTEGRATED LOGISTICS SUPPORT								0.016		0.017		0.018		0.019		0.019		0.027		0.116
QUALITY ASSURANCE								0.006		0.006		0.006		0.006		0.006			1	0.030
OTHER																			1	
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST									2	0.100	3	0.153	3	0.156	3	0.159	3	0.162	14	0.730
TOTAL PROCUREMENT								0.222		0.410		0.465		0.480		0.493		0.242		2.312
													Exhibi	t P-3A (lı	ndividual	Modifica	tion)	CLASS	FICAT	ΓΙΟΝ:

PAGE NO. 5C 62 ITEM NO.

CLASSIFICATION: UNCLA	ASSIFIED																			
P3A (Continued)																				
MODELS OF SYSTEMS AF	FECTED:	FPI	N-63 PAF	<u> </u>	/ODIFIC	CATION 1	TITLE:	ECP	/OCIR	X1018	FOIS						_			
INSTALLATION INFORMAT	ΓΙΟΝ:																			
METHOD OF IMPLEMENTA	ATION:		AIT																	
ADMINISTRATIVE LEADTI	ME:		2 Months	3	PRO	DDUCTIC	N LEA	DTIME:		6 Month	s									
CONTRACT DATES: DELIVERY DATE:		FY 2		N/A N/A		_	FY 2 FY 2		N/	<u>/A</u> /A	_	FY 2005 FY 2005		N/A N/A						
						_		(\$ in Milli			_									
Cost:	Prior Y			2003		Y 2004		Y 2005		2006		Y 2007		Y 2008		/ 2009	To Cor			Total
DDIOD VEADO	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS FY 2003 EQUIPMENT							_								-					
FY 2003 EQUIPMENT					-										-					
							_		2	0.400	1		-		_				1	0.100
FY 2005 EQUIPMENT FY 2006 EQUIPMENT					-					0.100	3	0.153							3	0.100
											3	0.153	-	0.450	-					
FY 2007 EQUIPMENT							-						3	0.156	2	0.159			3	0.156 0.159
FY 2008 EQUIPMENT							-								3	0.159	3	0.460		
FY 2009 EQUIPMENT TO COMPLETE							-								-		3	0.162	3	0.162
INSTALLATION SCHED		FY 200	3	l F	Y 2004		FY 2	2005	1	FY 200	<u>6</u>	FY	2007		FY 2	2008		FY 2009	1	

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

<sup>2</sup> 3A		INDIVID	UAL MC	DIFICA	TION															
MODELS OF SYSTEM AFFECTED:	AN/FPN	l-63 PAR	_TYPE N	MODIFIC	CATION:		MO	DERNIZ/	ATION		_		MODIF	CATIO	N TITLE:	ECP/	OCIR X10	8 TURNTA	BLE UPG	RADE
DESCRIPTION/JUSTIFICATION:																				
Due to exposure to the environment, corro positions required for multiple runway cove improve the reliability, availability and supp and therefore improve the overall Operatio Air Station (NAS) and Marine Corps Air Sta	erage at va portability onal Availa	arious air of AN/FP bility (Ao	stations N-63 PA ) of the A	Curren R by co	t turn-tab rrecting M	le assen ⁄lean Tin	nblies v ne Betv	vere field veen Fail	ed in the ure (MTI	e early 1 BF) pro	1960s wit blems be	th the Al	N/FPN-52 sed by hi	2 PAR a gh elec	and have trical and	been in- I mechan	service for 4 ical failure r	0 years. Thates of the	is ECP wil PAR turn-t	i ables
EVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	ONES:		Non-De	velopme	ntal Iten	n (NDI)												
	Prior QTY	Years \$	<u>FY:</u> QTY	2003 \$	<u>FY 2</u> QTY	2004 \$	<u>FY</u> QTY	<u>2005</u>	FY 2	2006 \$	<u>FY</u> QTY	2007 \$	FY 2	2008 \$	<u>FY</u> QTY	2009 \$	<u>1</u> QTY	<u>°C</u> \$	<u>TO</u> QTY	TAL \$
FINANCIAL PLAN (IN MILLIONS)		,		•		,				,		·		•						
RDT&E																				
ROCUREMENT																				
NSTALLATION KITS																				
NSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																				
ECP - Turntable Upgrade							4	1.172									13	4.855	17	6.027
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING								0.180										0.487		0.66
INTEGRATED LOGISTICS SUPPORT								0.046										0.219		0.26
QUALITY ASSURANCE							1	0.012										0.012		0.02
OTHER																				
NTERIM CONTRACTOR SUPPORT																				
INSTALL COST							4	0.229									13	0.769	17	0.99

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CLASSIFICATION: UNCLASS	SIFIED																				
P3A (Continued)																					
MODELS OF SYSTEMS AFFE	CTED:	FP	N-63 PAF	R MC	ODIFIC	CATION T	ITLE:	ECP/	OCIR	X1018 T	URNT	ABLE UP	GRA	DE			_				
INSTALLATION INFORMATIO	N:																				
METHOD OF IMPLEMENTATI	ON:		AIT																		
ADMINISTRATIVE LEADTIME	:		1 Month	1	PRO	DDUCTIO	N LEA	DTIME:		2 Months											
CONTRACT DATES: DELIVERY DATE:		FY 2 FY 2	2003: 2003:	N/A N/A		- -	FY 2 FY 2		N/		<u> </u>	FY 2005 FY 2005		N/A N/A		•					
					1			in Million											ı		7
Cost:	Prio Qtv	r Years \$	FY Qty	2003	Qtv	Y 2004 \$	Qtv	Y 2005 \$		2006	Qtv	Y 2007 \$		Y 2008 \$		Y 2009 \$		Complete \$	Qtv	Total \$	4
PRIOR YEARS	Qty	Ą	Qty	φ	Qty	Ф	Qty	Ф	Qty	Φ	Qty	φ	Qty	Ф	Qty	Ф	Qty	Ф	Qty	φ	+
FY 2003 EQUIPMENT																					1
FY 2004 EQUIPMENT																					1
FY 2005 EQUIPMENT							4	0.229											4	0.229	1
FY 2006 EQUIPMENT									4	0.184									4	0.184	1
FY 2007 EQUIPMENT											4	0.188							4	0.188	1
FY 2008 EQUIPMENT													4	0.192					4	0.192	
FY 2009 EQUIPMENT															4	0.196			4	0.196	
TO COMPLETE																	13	0.769	13	0.769	
INSTALLATION SCHEDULE FY 2002 & Prior In 0 Out 0	E: 1 0 0	FY 2003 2 3 0 0 0 0	<u>4</u> 0 0	1 2 0 0 0 0	0	4 1 0 0 0 0	<u>2</u> 4	2005 3 4 0 0 1 2	1 0 0	FY 2000 2 3 4 0 1 1	6 4 0 2	1 2 0 4 0 1	2007 3 0 1	4 1 0 0 2 0	FY 2 2 4 1	2008 3 4 0 0 1 2	1 0 0	FY 2000 2 3 4 0 1 1	9 4 0 2	13 13	33 33

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	UNCLASSIFIED																				
P3A			INDIVID	UAL MO	DIFICA	TION															
MODELS OF SYSTI	EM AFFECTED:	AN/FPN	-63 PAR	TYPE	MODIFIC	CATION:		MODE	ERNIZAT	ION		-	MODIFIC	ATIO	N TITLE	ECP	POCIR X10	18 CONF	IGURAT	ION UP	GRADE
DESCRIPTION/JUS	TIFICATION:																				
This ECP will addre	ess several maintenance ar	nd operato	r problem	ns with t	he currei	nt PAR c	onfigurat	ion. Hum	nan facto	rs pro	blems th	at hav	e been id	entifie	ed with th	e curre	nt FPN-63 F	PAR will b	e correct	ed. Kno	wn
	e components and assemb																				
11 '	ity, availability and supporta	,			,	•				,			0	,	0				•		
	semblies in the AN/FPN-63								Ao). This	ECP	is require	ed to r	modernize	the A	AN/FPN -	63 PAF	R to ensure	reliable, s	afe and e	effective	Landing
System operations	at Naval Air Station (NAS)	and Marin	e Corps /	Air Stati	ons (MC	AS) facili	ties work	dwide.													
DEVELOPMENT ST	ATUS/MAJOR DEVELOPI	MENT MIL	ESTONE	S:		Non-De	evelopme	ntal Item (	(NDI)		_										
												_						_	_		
			Years -		2003		2004		2005	_	<u>/ 2006</u>		Y 2007		2008		Y 2009	<u>I</u>		_	TAL
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (I	N MILLIONS)																				
RDT&E																					
<u>PROCUREMENT</u>																					
INSTALLATION KI	_																				
INSTALLATION KI	TS NRE																				
EQUIPMENT NRE																					
EQUIPMENT																					
ECP - Configuration	n Upgrade							4	0.347	4	0.354	5	0.445	5	0.471	5	0.493	20	2.312	43	4.422
DATA																					
TRAINING EQUIP																					
SUPPORT EQUIP	MENT																				
PRODUCTION EN	GINEERING								0.072		0.065		0.067		0.069		0.043		0.452		0.768
INTEGRATED LOC	GISTICS SUPPORT								0.046		0.047		0.048		0.049		0.030		0.178		0.398
QUALITY ASSURA	ANCE								0.021		0.015		0.015		0.015		0.015		0.063		0.144
OTHER																					
INTERIM CONTRA	ACTOR SUPPORT																				
INSTALL COST								4	0.170	4	0.152	5	0.195	5	0.200	5	0.205	20	0.861	43	1.783
TOTAL PROCURE	MENT								0.656		0.633		0.770		0.804		0.786		3.866		7.515
·													·	Exhi	bit P-3A	(Individ	ual Modifica	tion)	CLASSI	FICATION	ON:

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CLASSIFICATION: UNCLA	ASSIF	IED																				
P3A (Continued)																						
MODELS OF SYSTEMS AF	FECT	TED: FPI	N-63 PAF	<u> </u>	DIFIC	CATION T	TTLE:	ECP/	OCIR	X1018	CONF	IGURAT	ON U	PGRAD	E		_					
INSTALLATION INFORMAT	ΓΙΟΝ:																					
METHOD OF IMPLEMENTA	ATION	N:	AIT																			
ADMINISTRATIVE LEADTI	ME:		1 Month		PRO	DDUCTIC	N LEA	ADTIME:		2 Months	3											
CONTRACT DATES: DELIVERY DATE:		FY 2 FY2		N/A N/A		_ _	FY 2 FY 2		N/		<b>-</b>	FY 2005 FY 2005	_	N/A		-						
							(	\$ in Millio	ns)													
Cost:		ior Years	FY	2003	F	Y 2004	F`	Y 2005	F١	/ 2006	F١	Y 2007	F`	Y 2008	F`	Y 2009	To (	Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT							4	0.170											4	0.170		
FY 2006 EQUIPMENT									4	0.152									4	0.152		
FY 2007 EQUIPMENT											5	0.195							5	0.195		
FY 2008 EQUIPMENT													5	0.200					5	0.200		
FY 2009 EQUIPMENT															5	0.205			5	0.205		
TO COMPLETE																	20	0.861	20	0.861		
INSTALLATION SCHED		FY 200	<u>3</u>	FY	2004		FY 2	<u> 2005</u>		FY 2006	<u>6</u>	FY	2007		FY 2	2008	7	FY 2009	<u>.</u>	<u>TC</u>	TOTAL	
& Prior	1	2 3	4	1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4   1	2	3 4	1	2 3	4			
In 0	0	0 0	0	0 0	0	0 0	4	0 0	0	4 0	0	0 5	0	0 0	5	0 0	0	5 0	0	20	43	
Out 0	0	0 0	0	0 0	0	0 0	1	1 2	0	1 1	2	0 1	2	2 0	) 1	2 2	0	1 2	2	20	43	
	-								-					.,			-					

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED P3A		INDIVIDU	IAL MOD	IEIC ATI	ON															
PSA		INDIVIDO	JAL WOD	IFICATI	ON															
MODELS OF SYSTEM AFFECTED:	AN/FPN-	63 PAR	TYPE N	MODIFIC	ATION:		MODE	RNIZATI	ON		МС	DIFICAT	ION TIT	LE:	ECP/0	OCIR X	1018 AN	TENNA L	JPGRADE	<u> </u>
DESCRIPTION/JUSTIFICATION:																				
This ECP will improve the reliability, availabilit	y and supportabilit	y of existing	g Antenna	as via the	e installat	tion of sta	ate-of-the-	art bearir	ngs and	precision	mating b	rackets a	and surfa	aces to co	orrect Me	an Time	Between	Failure	(MTBF)	
problems being caused by high mechanical fa	ilure rates of the a	ntennas an	d therefor	re improv	ve the ov	erall Ope	erational A	vailability	(Ao) of	the AN/F	PN-63 P	AR. This	ECP is	required	moderniz	ze the A	N/FPN -6	3 PAR to	ensure re	eliable,
safe and effective Landing System operations	at Naval Air Statio	n (NAS) ar	nd Marine	Corps A	ir Station	ns (MCA	<li>S) facilities</li>	worldwi	de.											
DEVELOPMENT CTATUCIMA IOD DEVELOD	MENT MU ECTON	FC.			Non	Danielani		(NIDI)												
DEVELOPMENT STATUS/MAJOR DEVELOP	WENT WILESTON	E5:			Non-	Developr	nental Item	(NDI)		-										
	Prior \	/ears	FY	2003	FY	2004	FY:	2005	FY	2006	EV '	2007	FY	2008	FY 1	2009	т	C	TOT	-Δ1
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	<u>2000</u> \$	QTY	\$	QTY -	<u> </u>	QTY	<u> </u>
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				1
PROCUREMENT																				
INSTALLATION KITS																				1
INSTALLATION KITS NRE																				1
EQUIPMENT NRE																				
EQUIPMENT																				
ECP - Antenna Upgrade							6	0.379	6	0.383	6	0.382	5	0.334					23	1.478
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING								0.200		0.050		0.202		0.056						0.508
INTEGRATED LOGISTICS SUPPORT								0.192		0.052		0.123		0.054						0.421
QUALITY ASSURANCE								0.027		0.022		0.012		0.010						0.071
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST							6	0.114	6	0.120	6	0.126	5	0.110					23	0.470
TOTAL PROCUREMENT	1		1	1	1 -		1	0.912		0.627		0.845	_	0.564			1	_		2.948

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P3A (Continued)																				
MODELS OF SYSTEMS AI	FECT	TED: FPI	N-63 PAF	R M	ODIFIC	ATION T	ITLE:	ECP/	OCIR	X1018A	NTEN	NA UPG	RADE	<u> </u>			_			
INSTALLATION INFORMA	TION:																			
METHOD OF IMPLEMENT	ATION	l:	AIT																	
ADMINISTRATIVE LEADTI	ME:		1 Month	<u> </u>	PRO	DUCTIO	N LEA	DTIME:	2	2 Months	<u> </u>									
CONTRACT DATES: DELIVERY DATE:				2003: 2003:		I/A I/A	<u> </u>		2004: 2004:		N/A			2005: 2005:		N/A N/A	_			
								in Millio									-			
Cost:	Pr	ior Years	FV	2003	l F	Y 2004	,	Y 2005		2006	F۱	′ 2007	l F	Y 2008	ΕV	′ 2009	To (	Complete		Total
0001.	Qtv	\$	Qty	\$	Qtv	\$	Qty	\$	Qty	\$	Qtv	\$	Qty	\$	Qty		Qtv		Qtv	
PRIOR YEARS		,						*										<u> </u>		<u> </u>
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT							6	0.114											6	0.114
FY 2006 EQUIPMENT									6	0.120									6	0.120
FY 2007 EQUIPMENT											6	0.126							6	0.126
FY 2008 EQUIPMENT													5	0.110					5	0.110
FY 2009 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHED FY 2002 & Prior In Out 0		FY 200 2 3 0 0 0 0	3 4 0 0	1 2	0	4 1 0 0 0 0	2	2005 3 4 2 2 2 2	1	FY 2006 2 3 2 2 2 2	4 2 2	1 2 0 2 0 2	2007 3 2 2	4 1 2 0 2 0	FY 2 2 2 2	008 3 4 2 1 2 1		FY 2009 2 3 0 0 0 0	4 0 0	0 0

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

MODELS OF SYSTEM AFFECTED:  This ECP will improve the reliability, availability and supportability of the the-art Isolated Bipolar Gated Transitor (IBGT) modulator driver circuit c cards. This ECP will therefore improve the overall Operational Availabilit System operations at Naval Air Station (NAS) and Marine Corps Air Statiexausted before required funding can be obtained for this effort.  DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	MODIFICATION: e existing modulate card. This ECP wi tty (Ao) of the AN/ ttions (MCAS) fac	or assemb II correct N FPN-63 P ilities world	Mean Time B AR. This EC	eplacem Betwee CP is re is a crit	nent of its en Failure equired t	e (MTBF to moder	) problem nize the A	Controrrs being c	ed Recaused	ctifier (S I by high	CR) mod failure ra elp ensu	dulator dr ates of th re reliabl	ne SCR m le, safe ai	it card w lodulator nd effecti	rith a sta r driver o tive Land	ate-of- circuit ding
This ECP will improve the reliability, availability and supportability of the the-art Isolated Bipolar Gated Transitor (IBGT) modulator driver circuit c cards. This ECP will therefore improve the overall Operational Availabilit System operations at Naval Air Station (NAS) and Marine Corps Air Stat exausted before required funding can be obtained for this effort.	e existing modulate card. This ECP wi ity (Ao) of the AN/ titions (MCAS) fac	or assemb II correct N FPN-63 P ilities world	oly via the rep Mean Time B PAR. This EC dwide. This is	eplacem Betwee CP is re is a crit	nent of its en Failure equired t	e (MTBF to moder	) problem nize the A	Controrrs being c	ed Recaused	ctifier (S I by high	CR) mod failure ra elp ensu	dulator dr ates of th re reliabl	river circu ne SCR m le, safe a	it card w lodulator nd effecti	rith a sta r driver o tive Land	ate-of- circuit ding
the-art Isolated Bipolar Gated Transitor (IBGT) modulator driver circuit c cards. This ECP will therefore improve the overall Operational Availabilit System operations at Naval Air Station (NAS) and Marine Corps Air State exausted before required funding can be obtained for this effort.	card. This ECP wi ity (Ao) of the AN/ itions (MCAS) fac Non-D	Il correct M FPN-63 Pa ilities world Developmen	Mean Time B PAR. This EC dwide. This is	Betwee CP is re is a crit	en Failure equired t	e (MTBF to moder	) problem nize the A	s being o	aused -63 PA	l by high IR and h	failure ra elp ensu	ates of th re reliabl	ne SCR m le, safe ai	odulator nd effecti	r driver o	circuit ding
the-art Isolated Bipolar Gated Transitor (IBGT) modulator driver circuit c cards. This ECP will therefore improve the overall Operational Availabilit System operations at Naval Air Station (NAS) and Marine Corps Air State exausted before required funding can be obtained for this effort.	card. This ECP wi ity (Ao) of the AN/ itions (MCAS) fac Non-D	Il correct M FPN-63 Pa ilities world Developmen	Mean Time B PAR. This EC dwide. This is	Betwee CP is re is a crit	en Failure equired t	e (MTBF to moder	) problem nize the A	s being o	aused -63 PA	l by high IR and h	failure ra elp ensu	ates of th re reliabl	ne SCR m le, safe ai	odulator nd effecti	r driver o	circuit ding
System operations at Naval Air Station (NAS) and Marine Corps Air State exausted before required funding can be obtained for this effort.	tions (MCAS) fac	ilities world	dwide. This is	is a crit												
exausted before required funding can be obtained for this effort.	Non-E	)evelopmen			tically red	quired E	CP since	the SCR	s pres	ently in u	use are o	out of pro	oduction a	nd stock	( levels !	will be
		•	ntal Item (NDI)	1)												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		•	ntal Item (NDI)	l)												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		•	ntal Item (NDI)	l)												
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		•	ntal Item (NDI)	l)												
	2003 FY 2	004														
Prior Years FY 2			FY 2005	:	FY 20	റ്റെ	FY 2	007	EV	2008	EV ·	2009	т	C	TO	TAL
	\$ QTY		QTY \$	-	QTY	<u>500</u> \$	QTY	\$	QTY	\$	QTY	<u>2003</u> \$	QTY -	<u> </u>	QTY	<u>17L</u> \$
FINANCIAL PLAN (IN MILLIONS)		*						·		•				·		
RDT&E																
<u>PROCUREMENT</u>																
INSTALLATION KITS																
INSTALLATION KITS NRE																
EQUIPMENT NRE																
EQUIPMENT																
ECP - Modulator Board Upgrade			13 0.4	439	13	0.451									26	0.890
DATA																
TRAINING EQUIPMENT																
SUPPORT EQUIPMENT																
PRODUCTION ENGINEERING			0.0	061		0.062										0.123
INTEGRATED LOGISTICS SUPPORT			0.0	050		0.051										0.101
QUALITY ASSURANCE			0.0	013		0.013										0.026
OTHER																
INTERIM CONTRACTOR SUPPORT																
INSTALL COST			13 0.0	065	13	0.065									26	0.130
TOTAL PROCUREMENT			0.6	628		0.642										1.270

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SSIFI	ED																				
FECT	ED: FPN	N-63 PAF	₹	MODIF	ICATION <sup>-</sup>	TITLE:	ECP	/OCIR	X1018	MODU	LATOR					-					
ION:																					
TION	l:	AIT																			
ΛE:		1 Month	1	PF	RODUCTIO	ON LE	ADTIME:		2 Months	<u> </u>											
					N/A N/A		<u>-</u>							_							
						(	\$ in Millio													_	
																	•	_			
Qty	\$	Qty	\$	Qt	у \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	-	
						-						+								-	
												+ +								-	
						13	0.065					+ +						13	0.065	+	
						13	0.003	13	0.065			+ +								+	
						+		10	0.000			1 1						10	0.000	1	
												1 1								1	
												<del>                                     </del>								1	
												1 1								1	
1 0	2 3 0	<u>4</u> 0	0	0 0	4 1	1 2	3 4		2 3 13 0	<u>4</u> 0	1 2	3 0	4 1 0 0	2	3 4 0	0	2 0 0	<u>4</u> 0	<u>TC</u>	26	
	Pri Qty	Prior Years   Qty   \$	Prior Years   FY   Qty   S   Qty	FECTED: FPN-63 PAR  FION: ATION: AIT  ME: 1 Month  FY 20  FY 20  Prior Years FY 2003  Qty \$ Qty \$  Under the prior of the	FECTED:FPN-63 PAR MODIFICATION: AIT	FECTED: FPN-63 PAR MODIFICATION TO STORY  ATION:  ATION:  AIT  ME:  1 Month  PRODUCTION  FY 2003:  FY 2003:  N/A  Prior Years  Qty  Qty  Qty  Qty  \$	FECTED: FPN-63 PAR MODIFICATION TITLE:  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEA  FY 2003: N/A  FY 2003: N/A  Prior Years FY 2003 FY 2004 F  Qty \$ Qty \$ Qty \$ Qty  S Qty \$ Qty \$ Qty  DLE:  JLE:    1	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP  FION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME:  FY 2003: N/A  FY 2003: N/A  (\$ in Millio  Prior Years FY 2003 FY 2004 FY 2005  Qty \$ Qty \$ Qty \$ Qty \$  UNIT OF THE PRODUCTION LEADTIME:  STATEMENT OF THE PRODUCTION LEADTIME:  (\$ in Millio  Prior Years FY 2003 FY 2004 FY 2005  Qty \$ Qty \$ Qty \$ Qty \$  UNIT OF THE PRODUCTION LEADTIME:  STATEMENT OF THE PRODUCT	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR  FION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME:   FY 2003: N/A FY 2  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY Qty \$ Qty \$ Qty \$ Qty \$ Qty  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty  JULE:    FY 2003	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N  FY 2003: N/A FY 2004: N  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$   UNIT OF THE PRODUCTION LEADTIME: 2 Months  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$   UNIT OF THE PRODUCTION LEADTIME: 2 Months  (\$ in Millions)  FY 2006: N  OUT OF THE PRODUCTION LEADTIME: 1	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODU  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A  FY 2003: N/A FY 2004: N/A  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty  S Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty  I A D D D D D D D D D D D D D D D D D D	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A  FY 2003: N/A FY 2004: N/A  FY 2004: N/A   (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$   US ATION:  I AIT  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$   US ATION:  I AIT  (\$ in Millions)  FY 2006 FY 2007  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$   US ATION:  I AIT  (\$ in Millions)  FY 2006 FY 2007  Qty \$ Qty \$ Qty \$ Qty \$   US ATION:  I AIT  (\$ in Millions)  FY 2006 FY 2007  Qty \$ Qty \$ Qty \$   US ATION:  I AIT  I	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A  FY 2003: N/A FY 2004: N/A  FY 2004: N/A  FY 2004: N/A   (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY  Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty \$ Qty  I 13 0.065 I 13 0.065	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR    AIT	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  ATION: ATION: ATION:    AIT	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATION: AIT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A FY 2005: N/A  FY 2003: N/A FY 2004: N/A FY 2005: N/A  FY 2004: N/A FY 2007 FY 2008 FY 2009  Qty \$ Q	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATION: AIT	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATI  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A FY 2005: N/A  FY 2003: N/A FY 2004: N/A FY 2005: N/A   (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete  Qty \$ Q	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATI  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A FY 2005: N/A  FY 2003: N/A FY 2004: N/A FY 2005: N/A  (\$ in Millions)  Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete  Qty \$ Qt	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATTON:  ATT  ME: 1 Month PRODUCTION LEADTIME: 2 Months  FY 2003: N/A FY 2004: N/A FY 2005: N/A  FY 2003: N/A FY 2004: N/A FY 2005: N/A   (\$ in Millions)   Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  Qty \$ Qty	FECTED: FPN-63 PAR MODIFICATION TITLE: ECP/OCIR X1018 MODULATOR  TION:  ATTON:AIT  ME:1

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

P3A		INDIVID	UAL MC	DIFICA	TION															
MODELS OF SYSTEM AFFECTE AN/FRN-4;			TYPE I	MODIFIC	CATION:		MODEF	RNIZATIO	N			MODIFIC	ATION T	TLE:	X1019 E	CP/OCIR TA	CAN SH	ELTER & E	BEACO	N UPGRADES
OE-258A	<u>/URN</u>																			
DESCRIPTION/JUSTIFICATION:																				
Shore Station TACAN system upgrade ECPs	s will include rep	olacemen	nt of 15 s	everely	deteriora	ted she	Iters, and	I employ	COTS u <sub>l</sub>	ograde to	Beacon.									
DEVELOPMENT STATUS/MAJOR DEVELOR			EV.				mental Iter		57	-	EV	0007	EV.	2000				TO.		TOTAL
	Prior Y QTY	<u>rears</u> \$	QTY	2003 \$	QTY	2004 \$	QTY	2005 \$	QTY	<u>2006</u> \$	QTY	2007 \$	QTY	<u>2008</u> \$	QTY	2009 \$	QTY	<u>TC</u> \$	QTY	TOTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																				
ECP BEACON											16	1.600	16	1.600	30	3.000	42	4.410	104	10.610
ECP SHELTER UPGRADE							2	0.550	2	0.560	2	0.570	2	0.580	2	0.590	5	1.520	15	4.370
ECP 4																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS								0.055		0.056		0.132		0.046		0.047		0.151		0.487
PE								0.295		0.314		0.072		0.066		0.067		0.211		1.025
QA								0.015		0.029		0.042		0.021		0.022	Ì	0.069		0.198
										0.013		0.025					1		1	0.038
ATE									2	0.116	2	0.118	18	0.376	18	0.382	79	1.682	119	2.674

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CLASSIFICATION: UNCLASS	IFIED	1																			
P3A (Continued)																					
MODELS OF SYSTEMS AFFE	CTED	: <u>AN/FRN-4</u> OE-258A		<u>N-25,</u>		TYPE M	ODIFIC	ATION: <u>N</u>	MODE	RNIZATI	ION	MOI	DIFIC	CATION TIT	L <u>E: E</u>	CP/OC	IR X	1019 TAC	AN SHE	LTER & BEACO	N UPGRADES
INSTALLATION INFORMATIO	N:	<u>OL-230A</u>	<u>/UKIN</u>																		
METHOD OF IMPLEMENTATION	ON:	AIT																			
ADMINISTRATIVE LEADTIME:	:	6 MONT	HS		PROD	OUCTION LE	ADTIM	E:	6	MONTH	łS										
CONTRACT DATES:				FY 2003	:	N/A		FY 2	2004:	N/A			FY	2005:		N/A					
DELIVERY DATE:				FY 2003		N/A	_	FY 2	2004:	N/A			FY	2005:		N/A	_				
								(\$ in Mill	ions)												
Cost:	Pri	or Years	FY	2003	F	Y 2004	FY	2005		2006	F	Y 2007	F	Y 2008	FY	2009	To 0	Complete		Total	1
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT									2	0.116									2	0.116	
FY 2006 EQUIPMENT											2	0.118							2	0.118	
FY 2007 EQUIPMENT													18	0.376					18	0.376	
FY 2008 EQUIPMENT															18	0.382			18	0.382	
FY 2009 EQUIPMENT																					
TO COMPLETE																	79	####	79	1.682	
INSTALLATION SCHEDULE FY 2002	≣: 	FY 200			2004		FY 20			FY 2006			2007	· III	FY 20			FY 2009		<u>TC</u> TOT	ĀL
& Prior	1 -	2 3	4	1 2	3	4 1	2	3 4	11	2 3	4	1 2	3	4 1	2	3 4		2 3	4	70 44	
In 0 Out 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		0 0	0 2	2 0 0 0	0	0 7 2 0	11 8		7 0	11 0 8 8	0 2	79 119 79 119	

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVI	DUAL MO	DIFICATI	ON															
	<u>AN/FRN-42, AN/URN-25,</u> DE-258A/URN	=			TYP	E MODIFIC	CATION: MC	ODERNIZ	ATION				MODIFIC	CATION TI	ITLE: <u>ECF</u>	P/OCIR X1	019 TAC	AN ANTEN	INA UPO	<u>GRADE</u>
DESCRIPTION/JUSTIFICATION:																				
Shore Station TACAN Antenna Upgrad	le ECP will improve a	ntenna li	ghtning pr	otection.																
DEVELOPMENT STATUS/MAJOR DEVI	ELOPMENT MILESTO	ONES:			No	n-Developm	ental Item (N	DI)		<del>-</del>										
	<u>Prior \</u> QTY	<u>/ears</u> \$	<u>FY</u> QTY	<u>2003</u>	<u>F`</u> QTY	<u>Y 2004</u> \$	FY 20 QTY	<u>005</u> \$	<u>FY :</u> QTY	<u>2006</u> \$	<u>FY</u> QTY	<u>2007</u> \$	<u>FY</u> QTY	2008 \$	<u>F)</u> QTY	<u>/ 2009</u> \$	QTY	<u>TC</u> \$	<u>T(</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																				
ECP ANTENNA UPGRADE							6	0.330									24	1.476	30	1.806
ECP 4																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS								0.087										0.138		0.225
ILS PE								0.039										0.138		0.177
QA								0.008										0.052		0.060
INTERIM CONTRACTOR OF INDORF																				
INTERIM CONTRACTOR SUPPORT								0.400									0.4	0.504	20	0.000
INSTALL COST TOTAL PROCUREMENT		1	+		1		6	0.102			<del> </del>				1		24	0.564 2.368	30	0.666 2.934
TOTAL PROCUREMENT		1					l	0.566	İ	l	1	İ	Establish D	l -3A (Indivi	I NA 1	:£: £: \	01.4001	FICATION		2.934

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DELS OF SYSTEMS AFFECTED: AN/FRN-42, AN/URN-25. OE-258A/URN  STALLATION INFORMATION:  ETHOD OF IMPLEMENTATION:  MINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 3 MONTHS  DIVITAGE DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A	CLASSIFICATION: UNCLA	ASSIF	IED																			
OE-268AJURN   OE-268AJURN	P3A (Continued)																					
ETHOD OF IMPLEMENTATION: AIT  MINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 3 MONTHS  INTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A  LIVERY DATE: FY 2003: N/A FY 2004: N/A FY 2005: N/A  (\$ in Millions)  (\$ in Millions)  Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  RIOR YEARS QIY \$ QIY	MODELS OF SYSTEMS AF	FEC				<u>25.</u>	TYP	E MODIF	FICATION:	MODE	ERNIZATIO	<u>N</u>			MODIFIC	CATI	ON TITI	_E: <u>E(</u>	CP/OCIR	X10	19 TACAN A	NTENNA UPGRAD
MINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 3 MONTHS  INTRACT DATES: FY 2003: N/A FY 2004: N/A FY 2005: N/A	NSTALLATION INFORMA	TION:	:																			
N/TRACT DATES:   FY 2003:   N/A   FY 2004:   N/A   FY 2005:   N/A   FY 2005:   N/A   FY 2005:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2006:   N/A   FY 2009:   N/A   FY 2	METHOD OF IMPLEMENT	ATIOI	N: <u>AIT</u>																			
Cost:	ADMINISTRATIVE LEADTI	ME:	2 MONT	THS_		PRC	DUCTION I	LEADTIN	1E:		3 MONTH	S										
Cost:	CONTRACT DATES:			FY	2003:	1	N/A		FY	2004:	: 1	N/A			FY 2005:		N/A					
Cost:	DELIVERY DATE:			FY	2003:	- 1	V/A		FY	2004:	· _	V/A		_	FY 2005:		N/A	_				
Cost:									=													
RIOR YEARS   V   S   Qty   Qty		_												_		_						Ī
RIOR YEARS	Cost:																			0.		ł
Y 2003 EQUIPMENT	DDIOD VEADO	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	ì
Y 2004 EQUIPMENT					<u> </u>	+																ì
Y 2005 EQUIPMENT					<del>                                     </del>	+ +								-		-						ſ
Y 2006 EQUIPMENT   6 0.108   6 0.108   6 0.108   7 2007 EQUIPMENT   6 0.114   7 2008 EQUIPMENT   6 0.120   7 2009 EQUIPMENT   7					<del>                                     </del>	+ +		6	0.402					-		-				6	0.102	ſ
Y 2007 EQUIPMENT					<u> </u>	+		0	0.102	6	0.100			1								1
Y 2008 EQUIPMENT   6 0.120   6 0.120   Y 2009 EQUIPMENT   6 0.126   6 0.126   G 0.126						+ +				0	0.100	6	0.114									i
Y 2009 EQUIPMENT					<del>                                     </del>	+ +		-				-	0.114	6	0.120							İ
O COMPLETE 24 0.564 24 0.564  INSTALLATION SCHEDULE:    FY 2002   FY 2003   FY 2004   FY 2005   FY 2006   FY 2007   FY 2008   FY 2009   TC   TOTAL					<del>                                     </del>	+ +		1						+	0.120	6	0.126					i
INSTALLATION SCHEDULE:    FY 2002						1										Ť	0.120	24	0.564			I
FY 2002   FY 2003   FY 2004   FY 2005   FY 2006   FY 2006   FY 2007   FY 2008   FY 2009   TOTAL	10 001111 2212					1 1		1		1		1 1		-			1	1 1	0.001	1 1	0.001	
FY 2002   FY 2003   FY 2004   FY 2005   FY 2006   FY 2006   FY 2007   FY 2008   FY 2009   TOTAL																						
FY 2002   FY 2003   FY 2004   FY 2005   FY 2006   FY 2006   FY 2007   FY 2008   FY 2009   TOTAL	INSTALLATION SCHED	ULE:																				
In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			FY 200	)3	I F	Y 2004	4	FY 2	2005	71	FY 2006		FY 2	2007		FY 2	2008	T	FY 2009		TC	TOTAL
		ll <sub>1</sub>								1 1					11			1				1
		0		_				6			6 0	0									24	54
		0											0 3									
					4																	

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

## **UNCLASSIFIED**

		BUDGET	ITEM JUSTIFICAT	ION SHEET				DATE:			
			P-40						F	ebruary 200	4
APPROPRIATION/BUI	DGET ACTIVITY	1					P-1 ITEM NO	DMENCLATU	RE		BLI # 284700
OTHER PROCURE	EMENT, NAV	Y/ BA-2 CC	MMUNICATIONS A	AND ELECTI	RONIC EQU	JIPMENT	Fleet Area	Control a	nd Surveilland	e Facility (FA	ACSFAC) (42TT)
Program Element for C	ode B Items:						Other Relate	d Program El	ements		
			Not Applic	cable					<b>Not Applicabl</b>	e	
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY											
COST (In Millions)	\$149.5	N/A	4.221	4.305	3.712	3.885	4.012	4.061	4.157	CONT	CONT

#### DESCRIPTION:

Fleet Area Control and Surveillance Facilities (FACSFAC) are established to provide multi-mission Air Traffic Control and training area management services to the fleet. This service includes scheduling of surface, subsurface, and air operations in off-shore operating areas, surveillance control of air operations and related training evolutions such as Ground Control Intercept and Air Combat Maneuvers. The basic purpose of FACSFAC is to prevent mid-air collisions between military and civilian aircraft and to be responsible for the management and protection of Navy training airspace.

Eight FACSFAC system supported sites have been established as follows: FACSFAC Virginia Capes VA, FACSFAC Jacksonville FL, FACSFAC Caribbean (Key West FL), FACSFAC Pensacola FL, FACSFAC San Diego CA, FACSFAC Pearl Harbor HI, NAS Fallon NV and NAWCAD St. Inigoes MD. It is critical to replace FACSFAC equipment in a planned manner to maintain interoperability within the National Airspace System (NAS) and replace unsupportable obsolescent equipment. The FAA and DoD will transition to space-based Air Traffic Management and Digital Communications.

Funding in FY 05 provides for procurement and installation of the following:

FY 05: 1 Mode S interface (TT171); 1 Communication System Upgrade, (TT180); 5 Flight Planning System Upgrades (TT181); and 8 (ECPs/OCIRs) (TT145).

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 63 PAGE NO. 1

## **UNCLASSIFIED**

		BUDGET ITEM	JUSTIFICATION SH		GREGATED ITEM	S	DATE:	
			P-40	)a			F	ebruary 2004
APPROPRIATION/BUDGET A	CTIVITY					P-1 ITEM NOMENCLATI	URE	
THER PROCUREMENT, NA	VY/BA2-C	OMMUNICATIONS A	ND ELECTRONICS EQU	IPMENT		Fleet Area Control	and Surveillance Facili	ity (FACSFAC) (42TT)
,	ID	Prior						1
Procurement Items	Code	Years	FY2003	FY2004	FY2005			Total
T171 MODE S	N/A		1					
NTERFACE								
QTY	/				1			1
FUNDING					0.480			0.48
TT176 DISPLAY	N/A							
REPLACEMENTS								
QTY		73						73
FUNDING	į į	7.553						7.553
TT177 FACTS 3200	N/A					+	+	
RADAR INPUT	11//							
CAPACITY UPGRADE								
QTY			5	3				8
FUNDING	9	0.960	2.583	1.491				5.034
TT470 ALITOMATIO	N1/A							
TT179 AUTOMATIC DEPENDENT	N/A				+			
SURVEILLANCE (ADS)								
QTY	/			2				2
FUNDING				0.384				0.384
TT180 COMMUNICATION	N/A							
SYSTEM UPGRADE QTY	,				1			1
FUNDING					0.333			0.333
1 ON BING	1				0.000			0.000
TT181 FLIGHT PLANNING	N/A							
SYSTEM UPGRADE								
QTY					5			5
FUNDING	G .				0.574			0.574
TT 184 APPROACH CONTROL	N/A			-				
NTERFACE UPGRADE	IN/A				1	+	+	
QTY	<del>/                                    </del>					+	+	0
FUNDING								0.000

P-1 SHOPPING LIST
DD Form 2454, JUN 86 ITEM NO. 63 PAGE NO. 2

## **UNCLASSIFIED**

	E	BUDGET IT	EM JUSTIF	ICATION SI P-4	HEET FOR AG	GGREGATED	ITEMS			DATE:	February 200	4
APPROPRIATION/BUDG OTHER PROCUREME			NUNICATION			UIPMENT		P-1 ITEM NO Fleet Area			Facility (FACS	
Procurement Items	ID Code	Prior Years		FY 2003	FY 2004	FY 2005						Total
TT185 DAAS	Couc	10010		1 1 2000	1 1 2004	1 1 2000						Total
CONVERSION												
QTY												0
FUNDING												0.000
TT145 ECPs/OCIRs												
QTY		VAR		VAR	6	8						CONT.
FUNDING		12.365		0.330	0.320	0.238		1				CONT.
VARIOUS	N/A	104.728										104.728
OTHER COSTS	N/A	23.957		1.308	2.110	2.087						CONT.
TOTAL FUNDING		149.563										CONT.
				4.221	4.305	3.712						
												CONT.
		1				1		1	1			
								1				
						-		-				
						D 4 OLIOPPIA	İ		01 40015104			

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 63 PAGE NO. 3 UNCLASSIFIED

## **UNCLASSIFIED**

	WEAPONS SYSTEM COS P-5	ST ANALYS	SIS			Weapon Systen	n				DATE: February 2	004
APPRO	PRIATION/BUDGET ACTIVITY					ID Code						
OTHER	PROCUREMENT, NAVY/BA2-COMMUNICATIO	NS AND EI	LECTRONIC	S								
	EQUIPMENT	T				N/A	Fleet Area	Control and	d Surveillance	Facility (FA	ACSFAC) (4	12TT)
COST	ELEMENT OF COST	ID	Prior		FY 200	03		FY 2004			FY2005	
CODE		Code	Years Total Cost	Ougatitus	Linit Cont	Total Cost	Quantity	Linit Cont	Total Cost	Quantity		Total Cost
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
TT145	FACSFAC ECPs/OCIRs	N/A	12,365	VAR		330	6	53	320	8	30	238
TT171	MODE S INTERFACE	N/A	12,303	VAIN		330		55	320	1	480	480
TT176	DISPLAY REPLACEMENTS	N/A	7,553									
TT177*	FACTS 3200 RADAR INPUT CAPACITY UPGRADE	N/A	960	5	517	2,583	3	497	1,491			
TT179	AUTOMATIC DEPENDENT	N/A					2	192	384			
	SURVEILLANCE (ADS) 2/											
TT180	COMMUNICATION SYSTEM UPGRADE	N/A								1	333	333
TT181 TT184	FLIGHT PLANNING SYS UPGRADE APPROACH CONTROL INTERFACE UPGRADE	N/A N/A								5	115	574
TT185	DAAS CONVERSION	N/A										
TT800	INTEGRATED LOGISTICS SUPPORT	N/A	3,847			410	)		350			408
TT830	PRODUCTION ENGINEERING	N/A	9,502			510			571			548
TT900	INSTALLATION (NON-FMP)	N/A	10,483			388	1		1,189			1,131
TT990	INITIAL TRAINING	N/A	125									
	VARIOUS 1/	N/A	104,728									
	1/ The amount identified against this cost element refle	 acte total prio	   vear funding	accociated :	with cost ele	ments no longer fi	nanced in EV	2002 and beyon				
	2/ TT179 Title changed from Global Positioning Syster	n to Automat	tic Dependent	Surveillance	(ADS) to co	mply with Federal	Aviation Adm	inistration (FAA)	terminology			
						,						
	 M 2446, JUN 86	P-1 SHOP	149,563			4,221			4,305	CLASSIFICAT		3,712

	LINIC	1 40	CIFIE	<b>D</b>						
CLASSIFICATION:			SIFIE			lu.		1		
BUDGET PROCUREN	MENT HISTOR	Y AND PLA	NNING EXH	IBIT (P-5A)		Weapon System		A. DATE		
								Feb	oruary 2004	
B. APPROPRIATION/BUD	GET ACTIVITY				C. P-1 ITEM NOMENC	LATURE		•	SUBHEAD	
OTHER PROCUREMENT	•		IONS AND ELI	ECTRONICS						
	EQUIPMENT									
			1			trol and Surveilla	ance Facility	T	42TT	1
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
N/A		(000)								
N/A										
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 63 Classification:

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UNCLASSIFIED

No contract awards planned

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVID	UAL N	<b>IODIFIC</b>	ATIO	N														
MODELS OF SYSTEM AFFECTED:	FAC	SFAC	TYPE	MODIF	ICAT	ION:	MO	DERNIZ	ATION	1	_	N	/IODIF	FICATION	N TITLE:	TT145	ECPs/O	CIRs		
DESCRIPTION/JUSTIFICATION:																				
The ECP/OCIR program (TT145) provide	s for the pr	ocuremer	nt, and	or modi	ficatio	n, of crit	ically n	eeded e	electro	nic syste	ms/e	guipment	need	ed at Fle	et Area (	Control a	nd Surve	illance Fa	acilities	
(FACSFACs). ECP/OCIR procurements i																				ess, and
reduce total ownership costs. The following																				
NAVSKED OCIR for all FACSFACs.	31									- 3 -						-17		57	,	
DEVELOPMENT STATUS/MAJOR DEVE	LOPMENT	MILESTO	ONES	N	lon-D	evelopme	ntal Iter	n (NDI)												
										•										
	Prior	Years	<u>FY</u>	2003	<u>F\</u>	2004	FY	2005	<u>F\</u>	′ 2006	<u>F</u>	2007	<u>FY</u>	2008	FY 2	2009	<u>T</u>	<u>C</u>	TO	ΓAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT																				
ECP	VAR	12.365	VAR	0.330	6	0.320	8	0.238	8	0.243	8	0.125	8	0.128	8	0.128	CONT	CONT	CONT	CONT
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
SUPPORT EQUIPMENT PRODUCTION ENGINEERING		0.086		0.270		0.146		0.266		0.151		0.079		0.187		0.092	CONT	CONT	CONT	CONT
		0.086 0.070		0.270 0.229		0.146		0.266 0.225		0.151 0.139		0.079 0.050		0.187 0.201		0.092 0.051	CONT	CONT	CONT	CONT
PRODUCTION ENGINEERING						0.146														
PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT						0.146											CONT	CONT	CONT	CONT
PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT INITIAL TRAINING		0.070				0.146											CONT	CONT	CONT	CONT CONT
PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT INITIAL TRAINING OTHER	VAR	0.070	VAR	0.229	6	0.146	8		8		8		8		8		CONT	CONT	CONT	CONT CONT

ITEM NO. 63 PAGE NO. 6

CLASSIFICATION: UNCLA P3A (Continued)	ASSIFIE	ED																			
MODELS OF SYSTEMS AF	FECT	ED: <b>FA</b>	CSF	AC MO	DIFIC	ATION TIT	LE:	TT145	ECPs	s/OCIRs							_				
INSTALLATION INFORMA	TION:																				
METHOD OF IMPLEMENT	ATION:	: <u></u>	AIT																		
ADMINISTRATIVE LEADTI	ME:	2	Mont	ths	PR	ODUCTIO	N LEAI	OTIME:		4 Months	i										
CONTRACT DATES: DELIVERY DATE:				2003: 2003:		N/A N/A		FY 20			1/A 1/A			2005 2005		I/A I/A	= -				
Cost:	Dric	or Years	T =	Y 2003		FY 2004	1 6	Y 2005	٠.	Millions) Y 2006		Y 2007		Y 2008	ТБ	Y 2009	To Com	nlete		Total	1
0031.	Qty	\$	-	\$	Qty		Qty	\$	Qty		Qty	\$	Qty	\$	Qty		Qty	\$	Qty	\$	
PRIOR YEARS	VAR	4.066		*	Δ.,	Ψ	۵.,	<u> </u>	α.,	<u> </u>	ω.,	Ψ	۵.,	<u> </u>	۵.,	Ψ	ω.,		VAR	4.066	
FY 2003 EQUIPMENT			VAR	0.388															VAR	0.388	
FY 2004 EQUIPMENT					6	0.459													6	0.459	
FY 2005 EQUIPMENT							8	0.315											8	0.315	
FY 2006 EQUIPMENT									8	0.093									8	0.093	
FY 2007 EQUIPMENT											8	0.097							8	0.097	
FY 2008 EQUIPMENT													8	0.383					8	0.383	
FY 2009 EQUIPMENT															8	0.314			8	0.314	
TO COMPLETE																	CONT	CONT	CONT	CONT	
INSTALLATION SCHED		FY 2003		ll fy	2004		FY	<u> 2005</u>	7	FY 2006		FY	2007		FY:	2008	1	FY 2009		<u>TC</u>	ITOTAL
& Prior	1	2 3	4	1 2	3	4   1	2	3 4	1 1	2 3	4	1 2		4   1	2	3 4	1	2 3	4	10	• • • • • • • • • • • • • • • • • •
In 0	0	0 0	0	0 0	6	0 0		8 0	0	0 8	0	0 0		0 0	<del>-</del> 0	8 0	0	0 8	0	CONT	CONT
Out 0	0	0 0	0	0 0	0	6 0		0 8	0	0 0	8	0 0		8 0		0 8	0	0 0	8	CONT	
				•																	

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVI	DUAL	MODIFI	CATIO	N														
MODELS OF SYSTEM AFFECTED:	FAC	SFAC	TYPI	E MODI	FICAT	ION:	МО	DERNIZ/	ATION	٧	_	N	/IODII	FICATION	N TITLE:	TT171	MODE	S INTE	RFACE	
DESCRIPTION/JUSTIFICATION:																				
Upgrade the AN/FYK-17 FACSFAC Syste	m to meet	require	ments o	of FAA I	Mode "	S" Proar	am. M	ode "S" is	s an e	nhanced	aircr	aft transc	onde	r system	with mes	sage dat	ta link ca	pability.	The F	AA is
implementing Mode "S" to reduce the requ																				
Matters" (June 15,1997), the DoD must co	operate w	ith the F	AA for	the effe	ctive a	nd efficie	ent mai	nagemen	t of th	e Nation	al Air	space Sv	stem	(NAS), aı	nd ensui	e operati	onal and	d equipr	ment in	teroperabili
between the Department of Defense and I	ĀA.							J				, ,		,,		•				·
· ·																				
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	ONES		Non-De	evelopme	ental Ite	m (NDI)												
										-										
	Prior	Years	<u>FY</u>	2003	<u>FY</u>	2004	<u>FY</u>	2005	<u>FY</u>	<u>/ 2006</u>	<u>F`</u>	Y 2007	<u>F</u>	2008	FY	<u> 2009</u>	<u>I</u>	C	<u>T</u>	<u>OTAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	′ \$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT							1	0.480	1	0.490	1	0.500	2	1.154	3	1.821			8	4.445
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING								0.020		0.020		0.019		0.129		0.203				0.391
INTEGRATED LOGISTICS SUPPORT								0.020		0.026		0.030		0.110		0.170				0.356
INITIAL TRAINING																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST									1	0.138	1	0.141	3	0.432	3	0.447			8	1.158
TOTAL PROCUREMENT								0.520		0.674		0.690		1.825		2.641				6.350

Exhibit P-3A (Individual Modification)
ITEM NO. 63 PAGE NO. 8 CLASSIFICATION:

CLASSIFICATION: UNCLA	ASSIF	IED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECT	ΓED: <b>FA</b>	CSF/	AC M	ODIFIC	CATION T	ITLE:	TT17	1 MOI	DE S INT	ΓERF	ACE					_				
INSTALLATION INFORMA	TION:																				
INSTALLATION IN ORMA	HOIN.																				
METHOD OF IMPLEMENT	ATION	۸:	AIT																		
ADMINISTRATIVE LEADTI	ME:	2	Mont	hs	PRO	DUCTIO	N LEA	ADTIME:		4 Months	3	_									
CONTRACT DATES			<b>-</b>	0000				E	2004				<b>-</b>			<b>.</b> 1/A					
CONTRACT DATES:				2003:		/A I/A	_		2004:		N/A N/A			2005:		N/A N/A					
DELIVERY DATE:			FY.	2003:	<u> </u>	N/A	_	FY.	2004:	-	IN/A		FΥ	2005:		N/A					
								(\$ in Mill	ions)												
Cost:	Pri	or Years	F	Y 2003	F	Y 2004		Y 2005		/ 2006	F	Y 2007	F	Y 2008	F١	/ 2009	To C	Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT									1	0.138									1	0.138	
FY 2006 EQUIPMENT											1	0.141							1	0.141	
FY 2007 EQUIPMENT													1	0.144					1	0.144	
FY 2008 EQUIPMENT													2	0.288					2	0.288	
FY 2009 EQUIPMENT															3	0.447			3	0.447	
TO COMPLETE																					
INSTALLATION SCHED		FY 2003	•	FY	<sup>'</sup> 2004		FY 2	2005		FY 2006	3	FY	2007		FY 2	2008		FY 2009	9	<u>TC</u>	ГОТАЦ
& Prior	1 1	2 3	4	II		4   1	2	3 4	1	2 3		1 2		4   1	2	3 4	$\parallel_1$	2 3	_	<del> </del>	0.7.5
In 0	0	0 0	0			0 0	0	$\frac{3}{1} \frac{4}{0}$	_	0 1		0 0		0 0		$\frac{3}{1}\frac{7}{1}$		$\frac{2}{1} \frac{3}{1}$	1	0	8
Out 0		0 0	0				0	0 0	11	0 0	0		0	0   1	0	1 1		1 1	1	0	8
Jul 0	ے ا	0 0	- 0	1 0				0 0		0 0		ı <u>.                                    </u>							•	الـــــا	

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

73A		INDIVID	JAL N	/IODIFIC	ATIO	N														
MODELS OF SYSTEM AFFECTED:	FACS	SFAC	TYPE	MODIF	ICATI	ON:	MODE	ERNIZA	TION		_	1	MODIF	ICATIO	N TITLE:	TT177	7 RADAR	INPUT	CAPA	CITY UPG
ESCRIPTION/JUSTIFICATION:																				
Increases input sensors processed to 15.																				
continue to increase as the result of sever		grams. I	n orde	er to mair	ntain s	situationa	ıl awaren	ness and	d conf	trol of th	e FAC	SFAC a	airspac	e and a	djoining a	irspaces	s, the infor	mation	availat	le from all
must be presented to the FACSFAC Contr	ollers.																			
-,,,,,,,,,,		=																		
EVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	NES	N	lon-De	evelopmer	ntal Item (	(NDI)												
	<b>5</b> .	.,		,			E) ( 0)		<b>-</b> \(	0000					<b>5</b> ) ( )		_	_		
	Prior '			2003		<u>′ 2004</u>	FY 20			2006		2007		2008		<u>2009</u>	OTV 1	<u>C</u>		TOTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
NANCIAL PLAN (IN MILLIONS)																				
DT&E																				
ROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
-0																				
EQUIPMENT NRE						4 404													8	5.034
		0.960	5	2.583	3	1.491													_	
EQUIPMENT		0.960	5	2.583	3	1.491													+	
EQUIPMENT DATA		0.960	5	2.583	3	1.491														
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT		0.960	5	2.583	3	1.491														
EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT		0.960	5	0.240	3	0.350		0.163												1.153
EQUIPMENT DATA FRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING			5		3			0.163 0.110												
EQUIPMENT DATA FRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING NTEGRATED LOGISTICS SUPPORT		0.400	5	0.240	3	0.350														1.153
EQUIPMENT DATA TRAINING EQUIPMENT		0.400	5	0.240	3	0.350														1.153
EQUIPMENT DATA FRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING NTEGRATED LOGISTICS SUPPORT NITIAL TRAINING DTHER		0.400	5	0.240	3	0.350														1.153
EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT INITIAL TRAINING		0.400	5	0.240	3	0.350	(												8	1.153

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**UNCLASSIFIED** 

Exhibit P-3A (Individual Modification)

CLASSIFICATION: UNCLA	SSIFI	ED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECT	ED: <b>FA</b>	CSFA	C N	MODIFIC	CATION T	ITLE:	TT17	7 RAD	AR INP	UT CA	APACITY	UPGI	RADE			_				
INSTALLATION INFORMAT	ION:																				
METHOD OF IMPLEMENTA	ATION	l:	AIT																		
ADMINISTRATIVE LEADTIN	ΛE:		/ariou	IS	PR	ODUCTIO	N LEA	ADTIME:		Various	<b>i</b>	-									
CONTRACT DATES:				2003: _		I/A	_		2004:		N/A			2005:		N/A					
DELIVERY DATE:			FY 2	2003: _	l	V/A	_	FY 2	2004:		N/A		FY	2005:		N/A					
								(\$ in Mi	lions)												
Cost:	Pri	or Years	F	Y 2003	F	Y 2004	F	Y 2005	FΥ	2006	F'	Y 2007	F	Y 2008	F`	Y 2009	To 0	Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty		Qty	\$	Qty	\$	
PRIOR YEARS										·											
FY 2003 EQUIPMENT					4	0.470	1	0.120											5	0.590	
FY 2004 EQUIPMENT							3	0.360											3	0.360	
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
FY 2008 EQUIPMENT																					
FY 2009 EQUIPMENT																					1
TO COMPLETE																					1
INSTALLATION SCHEDU FY 2002 & Prior In 0 Out 0		FY 2003 2 3 0 0 0 0	4 1 0	1	EY 2004 2 3 1 1 1 1	4 1 0 1	FY 2 1 1	2005 3 4 1 1 1 1	1 0 0	FY 200 2 3 0 0 0 0	4 0	1 2 0 0 0 0	0	4 1 0 0 0 0	0		0	FY 2009 2 3 0 0 0 0	4 0 0	<u>TC</u> 0 0	TOTAL 8 8

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

3A		INDIVID	DUAL N	MODIFIC	CATIO	N														
ODELS OF SYSTEM AFFECTED:	FAC	SFAC	TYPE	MODI	FICAT	ION:	MOD	DERNIZ	ATION	ı	=	N	/ODIF	ICATIO	N TITLE:	TT179	AUTOM	ATIC D	EPEN	DENT SI
ESCRIPTION/JUSTIFICATION:																				
Provide Automatic Dependent Broadcast (	(ADS) cap	ability to	FACSI	ACs to	meet	requirem	ents of	FAA Fr	ee Flig	ht Progr	am.	ADS is a	n ena	bler for t	he FAA's	Free Fli	ght Progr	am whi	ch will	increase
and efficiency of the National Airspace Sys																				
ADS-B) areas will broadcast their position									ntrolle	rs and P	ilots t	o allow re	educti	on of airc	raft sepa	aration ar	nd improv	e appro	oach ca	apability.
also provide increased situational awarene	ess to Con	ntrollers a	abd Pilo	ts thus	provid	ing incre	ased sa	afety.												
EVELOPMENT STATUS/MAJOR DEVEL	OPMEN I	MILEST	ONES		Non-D	evelopme	ntal Item	n (NDI)												
											_						_	_	_	
		Years		2003		<u>/ 2004</u>		<u>2005</u>		<u>2006</u>		<u>/ 2007</u>	_	<u>2008</u>		<u>2009</u>	<u>T</u>			<u>OTAL</u>
	QTY	\$	QTY	\$	QIY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QIY	\$
NANCIAL PLAN (IN MILLIONS)																				
DT&E																				
ROCUREMENT					_	<b>†</b>													_	
ROCUREMENT INSTALLATION KITS																				
NSTALLATION KITS																				
NSTALLATION KITS INSTALLATION KITS NRE					2	0.384			2	0.384	2	0.392	2	0.400					8	1.560
NSTALLATION KITS INSTALLATION KITS NRE EQUIPMENT NRE					2	0.384			2	0.384	2	0.392	2	0.400					8	1.560
NSTALLATION KITS NSTALLATION KITS NRE EQUIPMENT NRE EQUIPMENT					2	0.384			2	0.384	2	0.392	2	0.400					8	1.560
NSTALLATION KITS INSTALLATION KITS NRE EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT					2	0.384			2	0.384	2	0.392	2	0.400					8	1.560
NSTALLATION KITS INSTALLATION KITS NRE EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT					2				2		2		2						8	
NSTALLATION KITS  NSTALLATION KITS NRE  EQUIPMENT NRE  EQUIPMENT  DATA  FRAINING EQUIPMENT  SUPPORT EQUIPMENT  PRODUCTION ENGINEERING					2	0.075			2	0.068	2	0.066	2	0.106					8	0.315
NSTALLATION KITS NSTALLATION KITS NRE EQUIPMENT NRE EQUIPMENT DATA FRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING NTEGRATED LOGISTICS SUPPORT					2				2		2		2						8	
NSTALLATION KITS INSTALLATION KITS NRE EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT					2	0.075			2	0.068	2	0.066	2	0.106					8	0.315
NSTALLATION KITS  NSTALLATION KITS NRE  EQUIPMENT NRE  EQUIPMENT  DATA  TRAINING EQUIPMENT  PRODUCTION ENGINEERING  NTEGRATED LOGISTICS SUPPORT  NITIAL TRAINING  OTHER					2	0.075			2	0.068	2	0.066	2	0.106					8	0.315
NSTALLATION KITS  NSTALLATION KITS NRE  EQUIPMENT NRE  EQUIPMENT  DATA  TRAINING EQUIPMENT  SUPPORT EQUIPMENT  PRODUCTION ENGINEERING  NTEGRATED LOGISTICS SUPPORT  NITIAL TRAINING					2	0.075			2	0.068	2	0.066	2	0.106					8	0.315

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CLASSIFICATION: UNCLA	SSIFII	ED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECTI	ED: <b>FA</b>	CSFAC	MC	DIFI	CATION T	ITLE:	TT17	9 AUT	OMATIC	DEP	ENDENT	SUR	/EILLANG	CE		_				
INSTALLATION INFORMAT	ION:																				
METHOD OF IMPLEMENTA	TION:	: <u> </u>	AIT																		
ADMINISTRATIVE LEADTIN	ΛE:	2	2 Month	<u>s</u>	PR	ODUCTIO	N LEA	DTIME:		4 Months	3										
CONTRACT DATES: DELIVERY DATE:		FY 20		N/A N/A		_ _	FY 2		N/	/A /A	<u> </u>	FY 2005 FY 2005	_	N/		_					
							(	\$ in Millio	ons)												
Cost:		or Years		2003		Y 2004		2005		2006		Y 2007		Y 2008				Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT					2	0.260			<u> </u>										2	0.260	
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT									2	0.260									2	0.260	
FY 2007 EQUIPMENT											2	0.280							2	0.280	
FY 2008 EQUIPMENT													2	0.300					2	0.300	
FY 2009 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCHEDU FY 2002 & Prior In 0 Out 0		FY 2003 2 3 0 0 0 0	4	1 2		4 1 1 0 1 0	FY 2 2 0 0	2005 3 4 0 0 0 0	1 0 0	FY 2006 2 3 0 1 0 1	5 4 1 1	1 2 0 0 0 0	2007 3 1 1	4 1 1 0 1 0		08 3 4 1 1 1 1	1 0 0	FY 2009 2 3 0 0 0 0	9 4 0 0	TC TOT 0 8 0 8	AL

Exhibit P-3A (Individual Modification)

CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIED																					
P3A		INDIVID	UAL	MODIFIC	CATIO	N															
MODELS OF SYSTEM AFFECTED:	FAC	SFAC	_TYP	E MODII	FICAT	ON:	MO	DERNIZA	OITA	N	_	N	10DIF	FICATION	N TITLE:	TT180	СОММ	UNICAT	ION S	YSTEM L	JPGRAD
DESCRIPTION/JUSTIFICATION:																					
Upgrade the FACSFAC Operational Cor																					
replaced by the Multimode Digital Radio																					
resolve the frequency spectrum over cro																					
300). In accordance with DoD Directive																	operate	with the	FAA fo	or the effe	ective an
efficient management of the National Air	space Syste	em (NAS	), and	ensure o	operati	onal ar	d equip	oment int	erope	rability b	etwee	n the De	partm	nent of De	efense ar	nd FAA,					
DEVELOPMENT STATUS/MAJOR DEVE	ELOPMENT	MILEST	ONES	<u> </u>	Non-De	evelopme	ental Ite	m (NDI)		_											
		<u>Years</u>		<u>Y 2003</u>		2004		<u>′ 2005</u>		<u>/ 2006</u>		<u>/ 2007</u>		<u>/ 2008</u>		2009		<u>·c</u>		<u>JATC</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	1
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
PROCUREMENT																					
INSTALLATION KITS																					
INSTALLATION KITS NRE																					
EQUIPMENT NRE							1	0.333	2	0.714	4	1.508	1	0.397					8	2.952	
EQUIPMENT																					l
DATA																					l
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
PRODUCTION ENGINEERING								0.006		0.006		0.006		0.006						0.024	
INTEGRATED LOGISTICS SUPPORT																					l
INITIAL TRAINING																					l
OTHER																					
INTERIM CONTRACTOR SUPPORT																					l
INSTALL COST							1	0.038	2	0.104	4	0.180	1	0.048					8	0.370	l
TOTAL PROCUREMENT								0.377		0.824		1.694		0.451						3.346	
	1				1						1	1	Exhi	bit P-3A (	Individua	al Modific	cation)	CLASS	IFICA	TION:	

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CLASSIFICATION: UNCLA	SSIFI	IED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECT	ED: FA	CSFA	C M	ODIFIC	CATION T	ITLE:	TT180	CON	MUNIC	ATION	N SYSTEM	И UP	GRADE			_				
INSTALLATION INFORMAT	LION:																				
INOTALLATION IN ORMA	1014.																				
METHOD OF IMPLEMENTA	ATION	l:	AIT																		
ADMINISTRATIVE LEADTI	ME:	2	Mont	hs	PRO	DDUCTIC	N LEA	ADTIME:		4 Months	3										
							·														
CONTRACT DATES:				2003:		I/A		FY 2	2004:		N/A		FY	2005:		N/A					
DELIVERY DATE:			FY 2	2003:	N	I/A	_	FY 2	2004:		N/A		_ FY	2005:		N/A					
								(\$ in Milli	one)												
Cost:	Pri	or Years	F	Y 2003		Y 2004	F	(φ III IVIIII Υ 2005		′ 2006	F	Y 2007	F	Y 2008	FY	2009	To C	omplete		Total	
0001.	Qtv	\$	Qty	\$	Qty	\$	Qty		Qtv	\$	Qtv		Qty	\$	Qty		Qtv		Qtv	\$	
PRIOR YEARS	,			·		·	1	i i		·	,	·		•		•		· ·	,	·	
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT							1	0.038											1	0.038	
FY 2006 EQUIPMENT									2	0.104									2	0.104	
FY 2007 EQUIPMENT											4	0.180							4	0.180	
FY 2008 EQUIPMENT													1	0.048					1	0.048	
FY 2009 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCHED FY 2002 & Prior		FY 2003 2 3	4		Y 2004 2 3	4 1	<u>FY</u> 2	2005 3 4	1	FY 2006	<u>6</u> 4	1 2	2007 3	4 1	FY 2	008 3 4		FY 2009 2 3	-	TC	TOTAL
In 0	0	0 0	0	-	0	0 0	0	1 0	0	0 1	1	0 0	2	2 0	0	1 0		0 0	0	0	8
Out 0	0	0 0	0	0 0	0 0	0 0	0	0 1	0	0 1	1	0 0	2	2 0	0	1 0	0	0 0	0	0	8
									111												

Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

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CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVII	DUAL	MODIFIC	CATION	1														
MODELS OF SYSTEM AFFECTED:	FAC	SFAC	TYP	E MODI	FICATION	ON:	МО	DERNIZA	AOITA	J	_	ľ	MODIFI	CATIO	N TITLE:	TT18	1 FLIGH	ΓPLAN	NING S	SYSTEM (
DESCRIPTION/JUSTIFICATION:																				
Obsolete Flight Data Input/Output (FDIO)	equipment	that is n	o long	er logisti	cally su	pportec	bv the	FAA will	be re	placed.	The F	ACSFAC	proces	ssina ed	uipment	will be d	lirectly in	terfaceo	d with th	ne FAA Fli
Transmission Network. Flight Plan data w																	,			
										-,										
DEVELOPMENT STATUS/MAJOR DEVEL	ODMENT	MII EST	ONES.		Non-De	wolonma	antal Itar	m (NIDI)												
EVELOT MENT STATOS/MAJOR DEVEL	OI WILINI I	WILLS	ONLO.		NOII-DE	velopine	illai ilei	וו (ועטו)		-										
	Drior	Years		Y 2003	EV	2004	EV	2005	ΕV	2006	E\	2007	EV	2008	EV '	2009		TC	т.	OTAL
	QTY	<u>1 ears</u> \$	QTY		QTY	\$	QTY		QTY		QTY			\$	QTY	<u>2009</u> \$	QTY	<u>TC</u> \$	<u>!</u> QTY	
	QIT	Ψ	QII	<u> </u>	QII	Ф	QII	<u> </u>	QIT	<b></b>	QII	Þ	QII	Φ	QIT	<u> </u>	QIT	<del> </del>	QII	<del>→ →</del>
INANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
ROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT							5	0.574	2	0.246	1	0.131							8	0.951
DATA							Ť	0.01	_	0.2.0		01.01							Ť	0.00.
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
PRODUCTION ENGINEERING					+			0.093		0.133		0.018							_	0.244
INTEGRATED LOGISTICS SUPPORT	+				+		+	0.053		0.133		0.010	+		-		1	+		0.244
INITIAL TRAINING	+		-		+		+	0.053		0.056		0.010	$\vdash$		-			-	_	0.119
	+				+ +		1	-					<del>                                     </del>		-		-	1		1
OTHER	-				1		1						-					-		
INTERIM CONTRACTOR SUPPORT	1		_		+ +		+	0.000	L.	0.50:	_	0.000			1		ļ	1		4.400
INSTALL COST					$\perp$		2	0.298	4	0.564	2	0.320						1	8	1.182
TOTAL PROCUREMENT								1.018		0.999		0.479								2.496

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**UNCLASSIFIED** 

Exhibit P-3A (Individual Modification)

CLASSIFICATION: UNCLAS	SSIFII	ED																		
P3A (Continued)						_				_				_						
MODELS OF SYSTEMS AFF	ECTI	ED: <b>FA</b>	CSFA	C	MODIFIC	CATION	TITLE:	TT18	1 FLIG	HT PLA	NNIN	G SYSTE	EM UP	PGRADE						
																	-			
INSTALLATION INFORMATI	ION:																			
METHOD OF IMPLEMENTA	TION:	:	AIT																	
				_																
ADMINISTRATIVE LEADTIN	1E:	2	Mont	hs	PR	ODUCTI	ON LEA	DTIME:		4 Mon	ths									
CONTRACT DATES:		FY 2	2003:		١	N/A		FY 200	4.	1	N/A		FY 2	2005:	N/	Ά				
DELIVERY DATE:			2003:	-		1/A		FY 200			I/A			2005:	N/		_			
																	_			
		.,						(\$ in Mill												
Cost:	Qty	or Years \$	Qty	Y 2003 \$	3 F	Y 2004	Qty	Y 2005 \$	Qty	′ 2006 \$	Qty	Y 2007 \$	Qtv	Y 2008	Qty	<sup>2009</sup>	Qty	omplete \$	Qty	Total \$
PRIOR YEARS	Qty	Ψ	Qty	φ	Qty	φ	Qty	φ	Qty	9	Qty	φ	Qty	φ	Qty	Ф	Qty	φ	Qty	φ
FY 2003 EQUIPMENT																	1 1			
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT							2	0.298	3	0.423									5	0.721
FY 2006 EQUIPMENT									1	0.141	1	0.160							2	0.301
FY 2007 EQUIPMENT											1	0.160							1	0.160
FY 2008 EQUIPMENT																				
FY 2009 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHEDU FY 2002 & Prior In 0	JLE: 1 0	FY 2003 2 3 0 0	4 0	1	FY 2004 2 3 0 0	4	FY 2 1 2 0 0	2005 3 4 1 1	1 1	FY 2006 2 3 1 1	<u>4</u> 1	1 2 1 0	2007 3 1	4 1 0 0	FY 2 2 0	2008 3 4 0 0	1	FY 2009 2 3 0 0	4 0	<u>TC</u>

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

P3A	SIFICATION: UNCLASSIFIED  INDIVIDUAL MODIFICATION  ELS OF SYSTEM AFFECTED: FACSFAC TYPE MODIFICATION: MODERNIZATION MODIFICATION TITLE: TT184 APPROACH CONT. INTERFACE UPGRADE																	
MODELS OF SYSTEM AFFECTED.	EAC					MO	DEDNIZ	'ATION			MODIE	ICATIO	NI TITI E:	TT19 <i>1</i>	ADDD(	) ) ) ) ) )	NIT II	ITEDEA <i>C</i>
WODELS OF STSTEW AFTECTED.	T AC	31 AC	_''''		ICATION.	IVIOI	DLINIZ	ATION	_		IVIODII	ICATIO	IN IIILL.	11104	ALLING	ACITOC	/19 1 . 11	VILIVI AC
DESCRIPTION/JUSTIFICATION:																		
Provide an interface between FACSFACs																		
need for more responsive air traffic control																		
allow the FACSFAC controllers to exchang																	pects	of the loc
traffic situation which will enhance traffic m	ıanageme	nt efficie	ncy an	d flight s	afety. It will a	so facil	itate uni	mpeded trar	sit for N	avy aircr	aft utili:	zing FA	CSFAC c	ontrolled	airspace	Э.		
L																		
DEVIEL ORMENT OTATILOWA LOD DEVIEL	ODMENIT	NAU FOT	0NE0				4150											
DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT	MILEST	ONES:		Non-Developme	ntal Iten	n (NDI)											
	Deias	. V		2002	EV 2004	ΓV	2005	EV 2006	_	/ 200 <del>7</del>	ΓV	2000	ΓV	2000	_	r.c	т.	<b>OTAL</b>
	QTY	Years \$		<u>2003</u> \$	<u>FY 2004</u> QTY \$		200 <u>5</u> \$	FY 2006 QTY \$		<u>/ 2007</u> \$	QTY	2008	QTY	2009 •	QTY	<u>ГС</u> \$	QTY	<u>AATC</u>
FINANCIAL PLAN (IN MILLIONS)	<del></del>	<del></del>	QII	φ	QII \$	T	φ	QII ş	QII	<del>Ψ</del>	QII	φ	QII	Ψ	QII	<u>Ψ</u>	QII	Ψ
	<b>_</b>	₩				$\vdash$												
RDT&E	<u> </u>																	
<u>PROCUREMENT</u>	<u> </u>																	
INSTALLATION KITS																		
																	ı	
INSTALLATION KITS NRE																		
INSTALLATION KITS NRE EQUIPMENT NRE																		
													2	0.520	6	1.620	8	2.140
EQUIPMENT NRE													2	0.520	6	1.620	8	2.140
EQUIPMENT NRE EQUIPMENT													2	0.520	6	1.620	8	2.140
EQUIPMENT NRE EQUIPMENT DATA													2	0.520	6	1.620	8	2.140
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT													2	0.520	6	1.620	8	2.140
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT													2		6		8	
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING													2	0.086	6	0.312	8	0.398
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT													2	0.086	6	0.312	8	0.398
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT INITIAL TRAINING													2	0.086	6	0.312	8	0.398
EQUIPMENT NRE EQUIPMENT DATA TRAINING EQUIPMENT SUPPORT EQUIPMENT PRODUCTION ENGINEERING INTEGRATED LOGISTICS SUPPORT INITIAL TRAINING OTHER													2	0.086	7	0.312	8	0.398

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CLASSIFICATION: UNCLASSIFIED	
P3A (Continued)	
   MODELS OF SYSTEMS AFFECTED: FACSFAC MODIFICATION TITLE: TT184 APPROACH CONTROL IN	TERFACE UPGRADE
INSTALLATION INFORMATION:	
METHOD OF IMPLEMENTATION: AIT	
ADMINISTRATIVE LEADTIME: 2 Months PRODUCTION LEADTIME: 4 Months	
CONTRACT DATES: FY 2003: N/A FY 2004: N/A	FY 2005: N/A
DELIVERY DATE: FY 2003: N/A FY 2004: N/A	FY 2005: N/A
(\$ in Millions)	
Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007	FY 2008 FY 2009 To Complete Total
PRIOR YEARS	
FY 2003 EQUIPMENT	
FY 2004 EQUIPMENT	
FY 2005 EQUIPMENT	
FY 2006 EQUIPMENT	
FY 2007 EQUIPMENT	
FY 2008 EQUIPMENT	
FY 2009 EQUIPMENT	1 0.250 1 0.255 2 0.505
TO COMPLETE	6 1.565 6 1.565
INSTALLATION SCHEDULE:	2007 FY 2008 FY 2009 TC TOTAL
8 Prior   1 2 3 4   1 2 3	
Out 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

## **UNCLASSIFIED**

	ER PROCUREMENT, NAVY ELECTRONIC EQUIPMENT  am Element for Code B Items:  Capable  Prior   ID   FY 2003   FY 2004   FY 2005   FY 2007   FY 2008   FY 2009   Complete    NTITY  IDENTIFICATION SYSTEMS NAVAIRSYSCOM (42 or name of the program Elements of the Related Program Elements or name of the program Elements or name											
P-40  APPROPRIATION/BUDGET ACTIVITY BA-2 COMMUNICATION AND  OTHER PROCUREMENT, NAVY ELECTRONIC EQUIPMENT  Program Element for Code B Items:  0204228N  Prior ID Years Code FY 2003 FY 2004 F  QUANTITY  COST				F	ebruary 20	04						
APPROPRIATION/	BUDGET ACTIVI	TY	BA-2 COM	MUNICATION	AND		P-1 ITEM NO	MENCLATU	RE	BLI 285100		
OTHER PROCU	JREMENT, NA	VY	ELECTRON	IIC EQUIPME	NT		IDEN	TIFICATIO	N SYSTEM	IS NAVAIR	SYSCOM (4	12MT)
Program Element for	or Code B Items:						Other Relate	d Program El	ements			
0204228N								<b>NOT APPI</b>	<b>ICABLE</b>			
	Prior	ID									То	
	Years	Code	)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY												
COST (In Millions)	167.8	A		\$29.7	\$21.7	\$18.3	\$0.0	\$0.0	\$0.0	\$0.0	Cont	Cont

DESCRIPTION: The Identification Systems program funds the following procurements: AN/UPX-37 Digital Interrogator (DI), Common Digital Transponder AN/APX-118, AN/UPX-29(V), SARTIS and MK XIIA Mode 5.

The Air Traffic Control Radio Beacon System, Identification Friend or Foe, MK XII System (AIMS) is a DOD directed tri-service program designed to provide a universal air traffic control radar beacon system compatible with the National Airspace System Program. It provides a secure identification system for military use on all combatant ships, selected auxiliaries, patrol craft, and selected Coast Guard ships by allowing all friendly forces to identify each other and neutral forces. The Mark XII system supports several missions such as anti-airwarfare, aerial bombardment, and naval attack.

The purpose of the AN/UPX-37 Digital Interrogator (DI), and Common Digital Transponder (CXP), is to replace 20-25 year old equipment with a reliability and maintenance enhancement through the use of COTS/NDI form/fit/function equipment. These new systems will be enhanced with state-of-the-art technology and open systems architecture, and will be purchased with existing MK XII Improvements funding. Growth capability to incorporate Mode 5 and Mode S functionality is incorporated in equipment design.

The AN/UPX-24(V) Field Change 5 provides open systems architecture for increased expansion capability. The AN/UPX-24(V) Mode S provides improved shipboard combat identification and increases the probability of identification of commercial and neutral aircraft.

The Interrogator System AN/UPX-29(V) is deployed on high capability, state of the art surface platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard Mark XII system for combat identification.

SARTIS provides a Non-Cooperative Target Identification capability for surface platforms. SARTIS I is installed on CG47-CG51, SARTIS II is a COTS/NDI improvement to be installed on CG52 CG73.

FY05 funds the procurement of 30 AN/UPX-37 Digital Interrogators, 26 AN/APX-118 Common Digital Transponders, and 12 AN/UPX-24(V) FC 5s. Installing Agent: Shipyard, Alteration Teams (AIT). When installation to be made: ROH/RAV/SRA. Type ship to receive equipment: An IFF system is on every ship in the fleet. SARTIS is being installed on CG47 class.

CLASSIFICATION:

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## **UNCLASSIFIED**

BUDGET ITE	M JU	STIFICA	TION SHEE	T FOR AGG	REGATED I	TEMS	DATE: February 2004	
APPROPRIATION/BUDGET ACTIVIT	Υ		BA-2 COMM	UNICATION A	ND		1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NA	٧Y		ELECTRONI	C EQUIPMENT	г		IDENTIFICATION SYSTEMS NAVAIRSYS	SCOM (42MT)
,	ID	Prior		1				(121111)
Procurement Items	Code	Years		FY 2003	FY 2004	FY 2005		Total
MT031 AN/UPX-37 DIGITAL	Α							
INTERROGATOR (DI)								
QTY		232		88	61	30		411
FUNDING	i	19.599		7.970	5.775	2.891		36.235
MT032 MK XII AN/APX-118 (CXP)	Α							
COMMON DIGITAL TRANSPONDER								
QTY		46		73	58	26		203
FUNDING		3.315		2.025	1.798	1.222		8.36
MT034 AN/UPX-24(V) FC5	Α							
QTY		10		7	8	12		37
FUNDING	i	2.758		2.340	2.912	4.464		12.474
MT035 AN/UPX-24(V) MODE S	Α							
QTY								0
FUNDING	i							0.000
MT036 AN/UPX-29 (V)	Α							
INTERROGATOR SYSTEM								
QTY				2				2
FUNDING	i			6.500				6.500
MT037 MK XIIA MODE 5	В							
QTY								0
FUNDING								0
	ļļ							
MT038 TACAN	Α							
QTY	<b>  </b>							0
FUNDING								0.000
	$\vdash$							
VARIOUS	$\longmapsto$	76.646						76.646
OTUED COOTS	<b>                                     </b>							
OTHER COSTS		65.451		10.833	11.183	9.719		CONT
TOTAL FUNDING		167.769		29.668	21.668	18.296	ASSIFICATION:	CONT

CLASSIFICATION:

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	WEAPONS SYSTEM CO P-5	ST ANAL	YSIS		Weapon S							DATE: <b>Fe</b>	bruary 20	04
	PRIATION/BUDGET ACTIVITY				ID Code	P-1 ITEM NO	DMENCLAT	JRE/SUBHEA	ND.					
Other F	Procurement, Navy		COMMUNICA											
	T	ELEC	TRONIC EQI		Α	IDENTIFIC	ATION S	YSTEMS N	AVAIRSY	SCOM (4	2MT)			
COST	ELEMENT OF COST	ID	Prior	F IN THOUSANDS (	OF DOLLARS		FY 2003			FY 2004			FY 2005	
CODE		Code	Years				,							
			Total Cost			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MT032 MT034 MT035 MT036 MT037 MT038	MK XII DIGITAL INTERROGATOR MK XII COMMON DIGITAL TRANSPONDER AN/UPX-24(V) FC5 AN/UPX-24(V) MODE S AN/UPX-29 INTERROGATOR SYSTEM MK XIIA MODE 5 TACAN	A A A A B B	19,599 3,315 2,758			88 73 7 2		7,970 2,025 2,340 6,500	61 58 8		5,775 1,798 2,912	30 26 12	96 47 372	2,89 1,22: 4,46
MT700 MT800 MT830 MT840 MT850 MT860 MT870 MT900 MT910	SARTIS ANUPX-29(V) IMPROVEMENTS (N76) INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING QUALITY ASSURANCE PRODUCT IMPROVEMENT ACCEPTANCE TEST & EVALUATION DEPOT INSTALLATION OF EQUIPMENT (NON-FMP) INSTALLATION OF EQUIPMENT (FMP)	A N/A N/A N/A N/A N/A N/A	7,173 17,619 11,537 26,130 60 4,973 7,435 663 10,465 2,754					1,178 3,012 3,364 558 155 574 1,757			1,548 4,601 1,051 1,078 286 357 2,228			1,19- 2,16 21: 46: 41: 5,04:
мТ990	INITIAL TRAINING VARIOUS 1/	N/A	1,434 51,854					235			34			21
	•	•	167,769					29,668			21,668			18,29
DD FORI	M 2446, JUN 86	P-1 SH	<b>167,769</b> OPPING LIST					29,668			21,668 CLASSIFICA	TION:		

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	WEAPONS SYST	EM COST AN P-5	ALYSIS			Weapon Sy	stem					DATE:	Februa	ary 2004	
	PRIATION/BUDGET ACTIVITY Procurement, Navy	BA-2 COM				ID Code		TURE/SUBHE		SCOM (42)	MT)				
				JSANDS OF I	DOLLARS		1								
COST	ELEMENT OF COST														Total
														Quantity	Cost
MT032 MT034 MT035 MT035 MT036 MT037 MT038 MT110 MT700 MT800 MT830 MT840 MT850 MT850 MT860 MT870 MT900 MT910	MK XII DIGITAL INTERROGATOR MK XII COMMON DIGITAL TRANSPONDER AN/UPX-24(V) FC5 AN/UPX-24(V) MODE S AN/UPX-29 INTERROGATOR SYSTEM MK XIIA MODE 5 TACAN SARTIS AN/UPX-29(V) IMPROVEMENTS (N76) INTEGRATED LOGISTICS SUPPORT PRODUCTION ENGINEERING QUALITY ASSURANCE PRODUCT IMPROVEMENT ACCEPTANCE TEST & EVALUATION DEPOT INSTALLATION OF EQUIPMENT (NON-FMP) INSTALLATION OF EQUIPMENT (FMP) INITIAL TRAINING VARIOUS 1/													179 157 27 0 2 0 0	36,23: 8,36: 12,47- 6,500 7,17: 17,61! CON' CON' CON' CON' CON' CON' CON' CON'
	И 2446, JUN 86		P-1 SHOPF						CLASSIFICA						CON

ITEM NO. 64 PAGE NO. 3A

<b>BUDGET PROCUREMEN</b>	T HISTORY	AND PLA	NNING EXHIBIT (P	-5A)		Weapon System		A. DATE		
			•	·		, ,		Februa	ry 2004	
B. APPROPRIATION/BUDGET ACT	IVITY				C. P-1 ITEM NOM	ENCLATURE			SUBHEAD	
Other Procurement, Navy	1		<b>BA-2 COMMUNIC</b>	ATION AND	IDENTIFICAT	TON SYSTEMS			42	MT
			<b>ELECTRONIC EQI</b>	JIPMENT	NAVAIRSYS	COM (42MT)				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	AVAILABLE NOW ?	DATE REVISIONS AVAILABLE
MT031 MK XII DI FY-03 FY-04 FY-05	88 61 30	91.0 94.7 96.4	NAVAIR NAVAIR NAVAIR		SS/FP Option SS/FP Option SS/FP Option	BAE, GREENLAWN, NY BAE, GREENLAWN, NY BAE, GREENLAWN, NY	Dec-02 Dec-03 Oct-04	Oct-03 Dec-04 Oct-05	YES YES YES	
FY-03 FY-04 FY-05	73 58 26	27.6 31.0 47.0	NAVAIR NAVAIR NAVAIR	Oct-02	C/FP C/FP Option C/FP Option	BAE, GREENLAWN, NY BAE, GREENLAWN, NY BAE, GREENLAWN, NY	May-03 Mar-04 Mar-05	Mar-04 Mar-05 Mar-06	YES YES YES	
MT034 AN/UPX-24(V) FC5 FY-03 FY-04 FY-05	7 8 12	334.3 364.0 372.0	NAVAIR NAVAIR NAVAIR	Jul-02	FFP C/FP Option C/FP Option	LITTON, VAN NUYS, CA LITTON, VAN NUYS, CA LITTON, VAN NUYS, CA	Sep-03 Mar-04 Mar-05	Sep-04 Mar-05 Mar-06	YES YES YES	
MT036 AN/UPX-29 FY-03	2	3,250.0	NAVAIR	Mar-02	C/FP Option	BAE, NASHUA, NH	Mar-03	Jan-05	YES	

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

**UNCLASSIFIED** 

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CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVID	JAL MOD	DIFICAT	ION															
MODELS OF SYSTEM AFFECTED:	UPX-34			TYPE	/IODIFI	CATION	l:	N/A			MOD	OFICATION	ON TITLE	<u>=:</u>	SARTIS	(MT11	0)			
DESCRIPTION/JUSTIFICATION:																				
SARTIS provides unique non-cooperative	ship-to-a	ir target r	ecognition	٦.																
DEVELOPMENT STATUS/MAJOR DEVE	LOPMEN	T MILEST	ONES:		Fielde	ed														
	Б.		E) ( (		E) /	0004	Ε)		-	, ,,,,,	-	, ooo <del>-</del>	E) ( .	2000	<b>5</b> ) ( )			<b>TO</b>	-	-O-TAI
	<u>Prior</u> QTY	Years \$	FY 2 QTY	<u>2003</u> \$	QTY	2004 \$		<u>/ 2005</u> \$		<u>2006</u> \$		<u>/ 2007</u> \$	QTY	<u>2008</u> \$	QTY	<u>2009</u> \$		<u>TC</u> \$	QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)		Ī	<u> </u>	<u> </u>	I	<del>-</del>	T		T	<u> </u>	T				1	<u> </u>	T	<u> </u>		<u> </u>
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE							1				1				1				1 1	
EQUIPMENT NRE									1											
EQUIPMENT	25	7.173							1										25	7.173
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS		0.180																		0.180
PE		3.533																		3.533
QUALITY ASSURANCE		0.060																		0.060
ACCEPTANCE, TEST & EVALUATION		0.959																		0.959
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	10	1.455															15	3.000	25	4.455
TOTAL PROCUREMENT		13.360																3.000		16.360

Exhibit P-3A (Individual Modification)

CLASSIFICATION:

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CLASSIFICATION: UNCLA	SSIFI	IED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECT	ED:	SAF	RTIS			n	MODIFIC	OITA	N TITLE:	_	SARTIS	(MT11	0)							
INSTALLATION INFORMAT	ION:																				
METHOD OF IMPLEMENTA	ATION	l: <u>AIT</u>																			
ADMINISTRATIVE LEADTIN	ИЕ:	N/A			_	PRODUC	CTION	LEADTIN	⁄IЕ: _	N/A											
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			N/A			FY 2004: FY 2004:	- -	N/A		- -	FY 20 FY 20			N/A N/A	- -				
								(\$ in l	Million	ıs)											
Cost:	Pri	ior Years		Y 2003		FY 2004	F١	Y 2005	F١	Y 2006	F	Y 2007	F١	/ 2008	FY	2009	To C	omplete		Total	
	Qty	\$	Qty	\$	Qty	/ \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS	10	1.455															15	3.000	25	4.455	
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT																					
FY 2008 EQUIPMENT																					
FY 2009 EQUIPMENT																					
TO COMPLETE																					
INSTALLATION SCHEDU FY 2002 & Prior In 10 Out 10		FY 200 2 3 0 0 0 0	<u>)3</u> -	4 1 0 0	0	2004 3 4 0 0 0 0	1	FY 2005 2 3 0 0 0 0	4 0 0	FY: 1 2 0 0 0 0	2006 3 0 0	4 1 0 0 0 0	FY 20 2 0 0	007 3 4 0 0 0 0	1 0 0	FY 2008 2 3 0 0 0 0	4	FY 1 2 0 0 0 0	2009 3 0	4 0 1 0 1	
Out 10		0 0		0   0	, 0	0 0		0 0	U	0 0	U	0 1 0	U	0 0		0 0	U	0 0	U	0 1	J   25

Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

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MODELS OF SYSTEM AFFECTED:	AN/UPX-27	TYPE MODIFICATION:	Reliability	MODIFICATION TITLE: AN/LIPX-37 DIGITAL INTERROGATOR (MT031)

#### DESCRIPTION/JUSTIFICATION:

Current AN/UPX-27 is late 60's technology and no longer meets operational availability requirements due to use beyond its intended life cycle. High cost of ownership due to frequent labor intensive alignments and poor reliability continue to be problems associated with the current system. Further, the current system suffers upgrade integration problems due to its dated architecture and offers no growth capabilities. The Navy requires UPX-37 to provide a more reliable system with the same functionality and growth capability including Mode 5 and Mode S.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Milestone III decision June 1998.

INDIVIDUAL MODIFICATION

	<u>Prior</u> QTY	Years \$	FY 2 QTY	2003 \$	<u>FY</u> QTY	<u>2004</u> \$	<u>FY</u> QTY	<u>/ 2005</u> \$	<u>FY</u> QTY	<u>′ 2006</u> \$	<u>F\</u> QTY	<u>′ 2007</u> \$	FY 2 QTY	2008 \$	<u>FY :</u> QTY	<u>2009</u> \$	QTY	<u>TC</u> \$	<u>I</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT (*note FY03 QTY)	232	19.599	88	7.970	61	5.775	30	2.891	66	6.636	33	3.440	42	4.606	58	6.487			610	57.404
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS		2.086		0.526		0.816		0.320		0.358		0.384		0.538		0.558		CONT		CONT
PE		2.040		1.317		1.689		0.282		0.443		0.243		0.431		0.436		CONT		CONT
PRODUCT IMPROVEMENT		0.263		0.455		0.883				0.066		0.201		0.358		0.365		CONT		CONT
ACCEPTANCE, TEST & EVALUATION		1.396		0.182		0.858		0.429		0.549		0.576		0.636		0.708		CONT		CONT
INITIAL TRAINING		0.075		0.035		0.034		0.036		0.036		0.055		0.056		0.057		CONT		CONT
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	185	1.617	47	0.332	79	0.632	61	0.491	30	0.240	66	0.526	33	0.262	42	0.341	67	0.544	610	4.985
TOTAL PROCUREMENT		27.076		10.817		10.687		4.449		8.328		5.425	•	6.887		8.952		CONT		CONT

Exhibit P-3A (Individual Modification)

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CLASSIFICATION:

NOTE: FY03 - 9 ADDITIONAL UNITS PURCHASED TO PROVIDE TO THE MODE 5 PROGRAM CONTRACTOR AS GFE. UNITS WILL BE USED FY04-FY08 FOR MODE 5 DT/OT.

UPON COMPLETION OF TESTING, UNITS WILL BE RETURNING TO INVENTORY FOR FIELDING TO FLEET.

UNCLASSIFIED

MODELS OF SYSTEMS AFFECTED: AN/UPX-27 MODIFICATION TITLE: AN/UPX-37 DIGITAL INTERROGATOR (MT031)  NSTALLATION INFORMATION: METHOD OF IMPLEMENTATION: AIT  ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 12 Months  CONTRACT DATES: FY 2003: Dec-02 FY 2004: Dec-03 FY 2005: Oct-05  CS: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2005 Oct-05  COSt: Prior Years FY 2003 Qty \$ Qty																						
P3A (Continued)																						
MODELS OF SYSTEMS AFI	FECT	ED:	AN/l	UPX-27				MODIFIC	ATIO	N TITLE:	_	AN/UPX-	37 DIG	SITAL IN	ΓERR	OGATO	R (M7	Г031)				
3A (Continued)  ODELS OF SYSTEMS AFFECTED: AN/UPX-27 MODIFICATION TITLE: AN/UPX-37 DIGITAL INTERROGATOR (MT031)  ISTALLATION INFORMATION:  ETHOD OF IMPLEMENTATION: AIT  DMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 12 Months  ONTRACT DATES: FY 2003: Dec-02 FY 2004: Dec-03 FY 2005: Oct-04  ELIVERY DATE: FY 2003: Oct-03 FY 2004 FY 2006: Dec-04 FY 2005: Oct-05  (S in Millions)  Cost: Prior Years FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 To Complete Total  ORDINATED SET OF YEARS 185 1.617 47 0.332 PY 0.632 PY 0.																						
METHOD OF IMPLEMENTA	TION	: AIT			_																	
ADMINISTRATIVE LEADTIN	ΛE:	1		Mont	<u>h</u>	PRODUC	CTION	LEADTIN	ИE:	12	Мо	nths										
CONTRACT DATES: DELIVERY DATE:									-					-			-					
								٠,٠		,											٦	
Cost:																			Otv		4	
PRIOR YEARS	,	•			Qly	φ	Qly	φ	Qty	Φ	Qty	φ	Qly	φ	Qty	Φ	Qly	Ф			-	
	100	1.017	77	0.002	79	0.632											9	0.008			-	
					1		61	0.491									_				-	
FY 2005 EQUIPMENT									30	0.240									30	0.240		
·											66	0.526								0.526		
FY 2007 EQUIPMENT													33	0.262					33	0.262		
FY 2008 EQUIPMENT															42	0.341			42	0.341	1	
FY 2009 EQUIPMENT																	58	0.536	58	0.536		
TO COMPLETE																						
	JLE:	FY 200 2 3	)3	4 1	FY 2	2 <u>004</u> 3 4	1	FY 2005 2 3	4	1 <u>FY</u> :	2006 3	4 1	2	007 3 4 17 17	1	FY 2008 2 3	4	1 2	3	4 11	TC TOTAL	

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION:	LINICL	ASSIFIE
ULASSIFICATION	UNG	4331FIFI

P3A	INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: IDENTIFICATION SYS. TYPE MODIFICATION: Maintainability/Reliability MODIFICATION TITLE: MK XII COMMON DIGITAL TRANSPONDER (CXP)

(MT032)

### DESCRIPTION/JUSTIFICATION:

Current MK-XII transponder systems no longer meet operational Reliability and Maintainability (R&M) requirements due to use beyond their intended life cycle and suffer high cost of ownership due to parts obsolescence. Current surface ship MK-XII transponders will be replaced to continue incremental digital and R&M upgrades to the MK-XII IFF System. The common digital transponder will use an open systems architecture to allow future growth, including Mode 5 and Mode S which will be incorporated into the production line beginning with the FY05 procurement.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Milestone III decision July 2002.

		Years	FY 2	<u>2003</u>	FY 2004				FY 2006		FY 2007		FY 2008		FY 2009		<u>TC</u>		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
FINANCIAL PLAN (IN MILLIONS)																					
RDT&E																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					
INSTALLATION KITS NRE																					
EQUIPMENT NRE																					
EQUIPMENT (*note FY03 & FY04 QTY)	46	3.315	73	2.025	58	1.798	26	1.222	44	2.112	26	1.274	26	1.300	26	1.326	92	5.83	417	20.204	
Equipment "A"																					
ECP 1 Grp "Software Version Description"	"	0.020																		0.020	
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
ILS		1.160		0.215		0.400		0.297		0.328		0.404		0.542		0.509		CONT		CONT	
PE		2.981		0.430		1.317		0.180		0.308		0.325		0.491		0.501		CONT		CONT	
PRODUCT IMPROVEMENT																					
ACCEPTANCE, TEST & EVALUATION		0.715		0.131		0.140		0.010		0.273		0.300		0.300		0.306		CONT		CONT	
INITIAL TRAINING		0.441		0.200																0.641	
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST	46	0.212		0.639	62	0.996	58	0.754	26	0.338	44	0.616	26	0.364	26	0.390	129	1.935	417	6.244	
TOTAL PROCUREMENT		8.844		3.640		4.651		2.463		3.359		2.919		2.997		3.032		CONT		CONT	

Exhibit P-3A (Individual Modification)

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CLASSIFICATION:

<sup>\*</sup> NOTE: FY03 - 11 ADDITIONAL UNITS PURCHASED TO PROVIDE TO THE MODE 5 PROGRAM CONTRACTOR AS GFE. UNITS WILL BE USED FY04-FY08 FOR MODE 5 DT/OT. UPON COMPLETION OF TESTING. UNITS WILL BE RETURNED TO INVENTORY FOR FIELDING TO FLEET.

<sup>\*\*</sup>NOTE: FY04 - 16 ADDITIONAL UNITS PURCHASED AS PARTIAL BUYBACK OF UNITS THAT WERE PUSHED INTO THE OUTYEARS AS A RESULT OF PR03 REDUCTIONS.

CLASSIFICATION: UNCLA	SSIF	IED																					
P3A (Continued)																							
MODELS OF SYSTEMS AF	FECT	TED: <u>IDE</u> I	NTIFI	CATIO	N SYS	TEMS		MODIFIC	CATIO	N TITLE:	-	MK XII (	OMMO	ON DIGIT	AL TI	RANSP	ONDE	R (CXP	(MTC	132)			
INSTALLATION INFORMAT	ION:																						
METHOD OF IMPLEMENTA	AOITA	N: <u>AIT</u>																					
ADMINISTRATIVE LEADTIN	ИЕ:	6	6	Mor	nths	PRODU	ICTION	N LEADT	ME:	11	Мо	nths											
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:		_	May- Mar-			FY 2004 FY 2004		Mar-(			FY 20 FY 20	-		ar-05 ar-06	<del>-</del> -						
								, ,	Million	,							I <del></del>				_		
Cost:	Pri Qtv	ior Years \$	Qty	Y 2003	Qt	FY 2004 v \$	Qty	Y 2005	Qty	Y 2006 \$	Qty	Y 2007 \$	Qtv	/ 2008 \$	FY Qty	/ 2009   \$	To C Qty	omplete \$	Qty	Total \$			
PRIOR YEARS	46	0.212	AP	0.439		у Ф	Qty	Ψ	Qty	Ψ	Qty	φ	Qty	φ	Qty	φ	Qty	φ	46	ο.651			
FY 2003 EQUIPMENT	70	0.212	AP	0.200		2 0.806											11	0.165	73	1.171			
FY 2004 EQUIPMENT			1		Al			0.754											58	0.944			
FY 2005 EQUIPMENT									26	0.338									26	0.338			
FY 2006 EQUIPMENT											44	0.616							44	0.616			
FY 2007 EQUIPMENT													26	0.364					26	0.364			
FY 2008 EQUIPMENT															26	0.390			26	0.390			
FY 2009 EQUIPMENT																	26	0.390	26	0.390			
TO COMPLETE																	92	1.380	92	1.380			
INSTALLATION SCHEDU FY 2002 & Prior In 46 Out 46	JLE: 1 0 0	FY 200 2 3 0 0 0 0	<u>03</u> –	- 1	FY 1 2 0 21	21 20	0	FY 2005 2 3 19 19	4 20	1 2 0 8 0 8	9	4 1 9 0 9 0		007 3 4 15 15 15 15	0	FY 2008 2 3 8 9 8 9	3 4 9 9	FY 1 2 0 8 0 8	2009 3 9 9	4 9 9	129	OTAL 417 417	

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Exhibit P-3A (Individual Modification) CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

P3A	INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: IDENTIFICATION SYSTEMS TYPE MODIFICATION: Maintenance/Reliability MODIFICATION TITLE: AN/.UPX-24(V) FC5 (MT034)

#### DESCRIPTION/JUSTIFICATION:

Provides interrogator set AN/UPX-24(V) with an open architecture configuration providing the capability for future operational enhancements, in particular Mode S and Mode 5. This configuration will provide increased interface capabilities in a fully redundant system with a significantly reduced number of line replaceable units.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>ECP DNS 001 approved 9/99</u>

		Years -	FY 2	003		2004	_	2005	_	2006	_	2007		2008		2009		TC	_	OTAL
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT	10	2.758	7	2.340	8	2.912	12	4.464	14	5.320	13	5.200	14	5.600					78	28.594
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS		0.322		0.437		0.332		0.218		0.237		0.280		0.322		0.370				2.518
PE		0.488		0.500		0.454		0.305		0.246		0.249		0.429		0.266				2.937
PRODUCT IMPROVEMENT		0.283		0.172		0.168		0.088		0.126		0.126		0.050		0.050				1.063
ACCEPTANCE, TEST & EVALUATION		0.568		0.100		0.080		0.030		0.025		0.025		0.030		0.030				0.888
DEPOT		0.030		0.155		0.286														0.471
INITIAL TRAINING																				
INTERIM CONTRACTOR SUPPORT													•							
INSTALL COST			10	0.560	7	0.357	8	0.416	12	0.636	14	0.756	13	0.715	14	0.784			78	4.224
TOTAL PROCUREMENT		4.449		4.264		4.589		5.521		6.590		6.636		7.146		1.500				40.695

Exhibit P-3A (Individual Modification)

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**UNCLASSIFIED** 

CLASSIFICATION:

CLASSIFICATION: UNCLA	ASSIFI	ED																				
P3A (Continued)																						
MODELS OF SYSTEMS AF	FECT	ED: IDEN	NTIFI	CATION S	SYSTI	EMS	!	MODIFIC	ATIOI	N TITLE:	_	AN/UPX-	24(V) I	FC5 (M	Г034)							
INSTALLATION INFORMATION	ΓΙΟN:																					
METHOD OF IMPLEMENT	ATION	l: <u>AIT</u>																				
ADMINISTRATIVE LEADTI	ME:	6		Month	<u>s</u>	PRODUC	TION	LEADTIN	⁄IЕ: _	12	Мо	nths										
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			Sep-0: Sep-0			FY 2004: FY 2004:	-	Mar-0 Mar-0			FY 20 FY 20	-		ar-05 ar-06	<b>-</b>					
								(\$ in I		,												
Cost:		or Years		Y 2003		Y 2004		Y 2005		Y 2006		Y 2007		2008		2009		omplete		Total	l	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	l	
PRIOR YEARS			10	0.560															10	0.560	l	
FY 2003 EQUIPMENT					7	0.357													7	0.357	i	
FY 2004 EQUIPMENT							8	0.416											8	0.416	i	
FY 2005 EQUIPMENT									12	0.636									12	0.636	i	
FY 2006 EQUIPMENT											14	0.756							14	0.756	i	
FY 2007 EQUIPMENT													13	0.715					13	0.715	i	
FY 2008 EQUIPMENT															14	0.784			14	0.784	i	
FY 2009 EQUIPMENT																					i	
TO COMPLETE																					i	
INSTALLATION SCHED FY 2002 & Prior In 0		FY 200 2 3 0 4	3	4 1 4 2	FY 2 2 0	2 <u>004</u> 3 4 0 7	1 0	FY 2005 2 3 2 3	4 3	FY:	2006 3 5	4 1 5 0	FY 20 2 4	007 3 4 5 5	1 0	Y 2008 2 3 4 4	4 5	FY 2 1 2 0 4	2009 3 5	4	TC TOT.	
Out 0	0	0 4		4 0	2	0 7	0	2 3	3	0 2	5	5 0	4	5 5	0	4 4	5	0 4	5	5	0 78	

PAGE NO. 5G

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
РЗА		INDIVID	UAL MOD	IFICATION	ON															
MODELS OF SYSTEM AFFECTED:	IDENTIFI	CATION S	SYSTEMS	TYPE N	ИODIF	ICATION	N: Mair	ntenance	/Relia	bility	MOE	DIFICATION	ON TITL	E: AN	/.UPX-24	4(V) MO	DE S	(MT035	.)	
DESCRIPTION/JUSTIFICATION:																				
Incorporation of a Mode S capability in a						ship's C			S.											
	<u>Prior</u> QTY	Years \$	FY 2 QTY	2 <u>003</u> \$	<u>F\</u> QTY	<u>′ 2004</u> \$	<u>F`</u> QTY	<u>/ 2005</u>	<u>FY</u> QTY	<u>′ 2006</u> \$	<u>F\</u> QTY	<u>/ 2007</u> \$	<u>FY</u> QTY	2008 \$	<u>FY</u> QTY	200 <u>9</u> \$	QTY	<u>TC</u> \$	<u>T</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																			$\Box$	
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT											3	0.300	4	0.412	15	1.590	102	11.118	124	13.420
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS												0.150		0.150		0.300		CONT		CONT
PE												0.100		0.100		0.635		CONT		CONT

PRODUCT IMPROVEMENT

TOTAL PROCUREMENT

DEPOT

INITIAL TRAINING

**INSTALL COST** 

ACCEPTANCE, TEST & EVALUATION

INTERIM CONTRACTOR SUPPORT

0.904

0.904

2.737

0.145

2.882

Exhibit P-3A (Individual Modification)

4

1.385

0.250

0.300

0.300

4.984

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2.904

1.954

0.150

0.150

0.100

3

0.853

0.150

0.150

0.100

0.165

2.080

3.750

3.750

**UNCLASSIFIED** 

CONT

CONT

CONT

CONT

CONT

0.224 117 6.669 124

CONT

CONT

CONT

CONT

7.058

CONT

CLASSIFICATION: UNCLA	ASSIF	IED																			
P3A (Continued)																					
MODELS OF SYSTEMS AF	FECT	ED: IDEI	NTIFI	ICATION	SYST	EMS	1	MODIFIC	ATIOI	N TITLE:	_	AN/UPX	-24 MC	DDES (N	/T035	5)					
INSTALLATION INFORMAT	TION:																				
METHOD OF IMPLEMENTA	ATION	l: <u>AIT</u>			_																
ADMINISTRATIVE LEADTI	ME:	TBD	)		_	PRODUC	CTION	LEADTI	ЛЕ: _	TBD											
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			N/A N/A			FY 2004: FY 2004:	-	N/A N/A			FY 20 FY 20	-		N/A N/A	<b>-</b>				
01			-	7/ 0000		2/ 000 /		(\$ in			-	2/ 0007		(0000	T =>		IT. 0	1 . 1 .	1	T. (.)	
Cost:	Qty	ior Years \$	Qty	Y 2003	Qty	Y 2004	Qty	Y 2005 \$	Qty	Y 2006 \$	Qty	Y 2007	Qty	/ 2008 \$	Qty	/ 2009   \$	Qty	omplete \$	Qty	Total \$	
PRIOR YEARS	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	
FY 2003 EQUIPMENT																					
FY 2004 EQUIPMENT																					
FY 2005 EQUIPMENT																					
FY 2006 EQUIPMENT																					
FY 2007 EQUIPMENT													3	0.165					3	0.165	
FY 2008 EQUIPMENT															4	0.224			4	0.224	
FY 2009 EQUIPMENT																	15	0.855	15	0.855	
TO COMPLETE																	102	5.814	102	5.814	
INSTALLATION SCHED FY 2002 & Prior In 0		FY 200 2 3 0 0		4 1 0 0	2	2004 3 4 0 0	1 0	FY 2005 2 3 0 0	4 0	FY:	2006 3 0	4 1 0 0	FY 20 2 0	$   \begin{array}{c c}     \hline       007 \\       \hline       3 & 4 \\       \hline       0 & 0   \end{array} $	1 0	FY 2008 2 3 1 1	4 1	FY 1 2 1	2009 3 1	4	C TOTAL

Exhibit P-3A (Individual Modification)

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PAGE NO. 5I

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVIDI	JAL MOD	IFICATIO	N															
MODELS OF SYSTEM AFFECTED:	IDENTIFIC	CATION S	YSTEMS	TYPE M	IODIFI	CATION	N: <u>Mair</u>	itenance	/Relia	bility	MOE	DIFICATI	ON TITL	E: AN/U	PX-29(V	) INTER	ROGA	TOR SY	STEM	l (MT036)
DESCRIPTION/JUSTIFICATION:																				
The Interrogator System AN/UPX-29(V) is by a standard Mark XII system for comba FRIEND evaluation. Major system compoundicators C-10064/UPX-24(V).	t identifica	ation. The	ese require	ements in	clude	increase	d spe	ed of ide	ntifica	tion, inci	reased	d Probab	ility of Ide	entification	on (PID),	and high	n confi	dence tr	ıe .	ded
DEVELOPMENT STATUS/MAJOR DEVE	LOPMEN	T MILES	TONES:			N/A			_											
	<u>Prior</u> QTY	Years \$	FY 2 QTY	2 <u>003</u> \$	<u>FY</u> QTY	<u>′ 2004</u> \$	<u>FY</u> QTY	<u>′ 2005</u> \$	<u>FY</u> QTY	<u>′ 2006</u> \$	_	<u>/ 2007</u> \$	<u>FY:</u> QTY	<u>2008</u> \$	<u>FY:</u> QTY	<u>2009</u> \$	QTY	<u>TC</u> \$	<u>T</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT			2	6.500															2	6.500
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS																				
PE				0.765		1.141														1.906
PRODUCT IMPROVEMENT																				
ACCEPTANCE, TEST & EVALUATION																				
DEPOT																				
INITIAL TRAINING																				
INTERIM CONTRACTOR SUPPORT																				

3.800

3.800

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0.600

1.741

0.800

8.065

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INSTALL COST

TOTAL PROCUREMENT

Exhibit P-3A (Individual Modification)

CLASSIFICATION:

5.200

13.606

2

CLASSIFICATION: UNCLA	SSIF	IED																				
P3A (Continued)																						
MODELS OF SYSTEMS AF	FECT	ED: IDE	NTIFI	CATION S	SYST	EMS	ا	MODIFICA	ATIOI	N TITLE:	_	AN/UPX	-29(V)	INTERRO	OGAT	OR SYS	STEM	(MT036	i)			
INSTALLATION INFORMAT	ΓΙΟN:																					
METHOD OF IMPLEMENTA	ATION	l: <u>AIT</u>																				
ADMINISTRATIVE LEADTII	ME:	8	}	Months	-	PRODUC	TION	LEADTIN	ИE: _	21	Mon	iths										
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			/lay-0 Jan-0			FY 2004: FY 2004:	-	N/A N/A		- -	FY 20 FY 20	-		N/A N/A	<b>-</b>					
								(\$ in <b>N</b>													_	
Cost:		ior Years		Y 2003		Y 2004		Y 2005		Y 2006	_	Y 2007		<u> 2008</u>		2009	_	omplete	_	Total	1	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	1	
PRIOR YEARS																					1	
FY 2003 EQUIPMENT			AP	0.800	AP	0.600	2	3.800											2	5.200	1	
FY 2004 EQUIPMENT																					1	
FY 2005 EQUIPMENT																					1	
FY 2006 EQUIPMENT																					1	
FY 2007 EQUIPMENT																					1	
FY 2008 EQUIPMENT																						
FY 2009 EQUIPMENT																					1	
TO COMPLETE																					]	
INSTALLATION SCHEDI FY 2002 & Prior In 0 Out 0		FY 200 2 3 0 0 0 0	<u>)3</u> -	4 1 0 0 0 0	FY 2 2 0 0	2004 3 4 0 0 0 0	1 0 0	FY 2005 2 3 2 0 2 0	4 0 0	1 2 0 0 0 0	2006 3 0 0	4 1 0 0 0 0	FY 20 2 0 0	007 3 4 0 0 0 0	1 0 0	FY 2008 2 3 0 0	4	1 2 0 0 0 0	2009 3 0 0	0	TC TOTAL 0 2 0 2	
I																						

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

23A	INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: IDENTIFICATION SYSTEMS TYPE MODIFICATION: Maintenance/Reliability MODIFICATION TITLE: MK XII MODE 5 (MT037)

#### DESCRIPTION/JUSTIFICATION:

MK XII MODE 5 provides improved secure cooperative combat identification through IFF. MODE 5 is a product improvement which is designed to be installed through engineering changes to digital MK XII interrogators and transponders including the APX-117, APX-118, UPX-37, APX-111, and RT-1832.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ECP DNS 001 approved 9/99

	Prior QTY	<u>Years</u> \$	<u>FY 2</u> QTY	003 \$	<u>FY</u> QTY	<u>2004</u> \$	<u>FY</u> QTY	<u>2005</u>	<u>FY</u> QTY	<u>2006</u> \$	<u>FY</u> QTY	<u>2007</u>	FY 2 QTY	2008 \$	FY 2 QTY	2009 \$	QTY	<u>TC</u> \$	<u>T</u> QTY	OTAL \$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT									28	0.924	63	2.119	123	3.141	135	3.248	1425	25.865	1774	35.297
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS								0.296		0.345		0.992		1.012		1.032		CONT		CONT
PE								0.736		1.733		5.313		2.989		3.536		CONT		CONT
PRODUCT IMPROVEMENT								0.130		0.148		0.460		0.469		0.594		CONT		CONT
ACCEPTANCE, TEST & EVALUATION																				
DEPOT																				
INITIAL TRAINING								0.181		0.220		0.247		0.252		0.257		CONT		1.157
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST											28	0.146	63	0.378	123	0.740	1560	9.356	1774	10.620
TOTAL PROCUREMENT								1.343		3.370		9.277		8.241		9.407		CONT		CONT

Exhibit P-3A (Individual Modification)

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CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLA	SSIFI	ED																					
P3A (Continued)																							
MODELS OF SYSTEMS AF	FECT	ED: IDE	NTIF	ICATION	SYST	EMS	!	MODIFIC	ATION	N TITLE:	_	MK XII M	ODE	5 (MT03	7)								
INSTALLATION INFORMAT	ION:																						
METHOD OF IMPLEMENTA	ATION	: AIT			_																		
ADMINISTRATIVE LEADTII	ME:	TBD	)		_	PRODUC	CTION	LEADTI	ИЕ: _	TBD													
CONTRACT DATES:		FY 2003:			N/A		1	FY 2004:		N/A			FY 20	05:	1	N/A							
DELIVERY DATE:		FY 2003:			N/A		- 1	FY 2004:	=	N/A			FY 20	05:	1	N/A	_						
								(\$ ir	n Millic	ns)													
Cost:	Pri	or Years	F	Y 2003	F	Y 2004	F`	Y 2005		2006	F	Y 2007	F١	/ 2008	FY	2009	To Co	omplete		Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
PRIOR YEARS																							
FY 2003 EQUIPMENT																							
FY 2004 EQUIPMENT																							
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT											28	0.146							28	0.146			
FY 2007 EQUIPMENT													63	0.378					63	0.378			
FY 2008 EQUIPMENT															123	0.740			123	0.740			
FY 2009 EQUIPMENT																	135	0.810	135	0.810			
TO COMPLETE																	1425	8.546	1425	8.546			
INSTALLATION SCHEDI FY 2002 & Prior In 0 Out 0		FY 200 2 3 0 0 0 0	<u>)3</u> -	4 1 0 0 0 0	FY 2 2 0 0	3 4	1 0 0	FY 2005 2 3 0 0 0 0	4 0 0	1 2 0 0 0 0		4 1 0 7 0 7	FY 20 2 7 7	007 3 4 7 7 7 7	15	FY 2008 2 3 16 16 16 16	<u>4</u> 16	1 2 30 31		31 1	TC TO 177 560 177	74	

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED																				
P3A		INDIVID	UAL MOI	DIFICAT	ON															
MODELS OF SYSTEM AFFECTED:	AN/URN-	25		TYPE M	10DIFI	CATION	l: Field	Change	•		MOD	DIFICATION	ON TITLE	E: TAC	CAN SYS	STEM UF	GRA	DE (MT	)38)	
DESCRIPTION/JUSTIFICATION:																				
Ship Tactical Air Navigation (TACAN) sys	stem upgr	rade. Upç	grades wi	II include	digital	COTS (	ıpgrade	e to 1970	0's tec	hnology	TACA	AN beaco	n and re	duce part	s obsole	scence.				
DEVELOPMENT STATUS/MAJOR DEVE	LOPMEN	T MILEST	ΓONES:			N/A			_											
	Prior Years         FY 2003         FY 2004         FY 2005         FY 2006         FY 2007         FY 2008         FY 2009         TC         TOTAL           QTY         \$         <																			
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS NRE																				
EQUIPMENT NRE																				
EQUIPMENT											28	2.800	28	2.800	30	3.000	190	20.210	276	28.810
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
ILS								0.063		0.071		0.268		0.033		0.033		0.117		0.585
PE								0.657		0.703		0.058		0.033		0.036		0.220		1.707
PRODUCT IMPROVEMENT										0.033		0.067		0.006		0.006		0.041		0.153
ACCEPTANCE, TEST & EVALUATION										0.033		0.067								0.100
DEPOT																				
INITIAL TRAINING																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST													28	0.448	28	0.455	220	3.974	276	4.877
TOTAL PROCUREMENT								0.720		0.840		3.260		3.320		3.530		24.562		36.232

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Exhibit P-3A (Individual Modification)

CLASSIFICATION:

**UNCLASSIFIED** 

CLASSIFICATION: UNCLA	SSIFI	ED																				
P3A (Continued)																						
MODELS OF SYSTEMS AF	FECT	ED: AN/F	RN-	42, AN/UI	RN-25	, OE-258 <i>A</i>	VURN	І МО	DIFIC	ATION T	TITLE <u>:</u>	:		TACAN	SYST	EM UPG	RAD	E (MT03	8)			
INSTALLATION INFORMAT	ION:																					
METHOD OF IMPLEMENTA	ATION	l: AIT			_																	
ADMINISTRATIVE LEADTII	ME:	1		Month	_	PRODUC	CTION	LEADTIN	1E: _	12	Mont	ths										
CONTRACT DATES: DELIVERY DATE:		FY 2003: FY 2003:			N/A N/A			FY 2004: FY 2004:	-	N/A N/A			FY 20 FY 20	_		N/A N/A						
								(\$ in I	Millior	ıs)												
Cost:		or Years		Y 2003		Y 2004	F`	Y 2005	F١	2006	F`	Y 2007		2008		2009		omplete		Total	]	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT													28	0.448					28	0.448		
FY 2008 EQUIPMENT															28	0.455			28	0.455		
FY 2009 EQUIPMENT																	30	1.806	30	1.806		
TO COMPLETE																	190	2.168	190	2.168		
INSTALLATION SCHEDI FY 2002 & Prior In 0 Out 0		FY 200 2 3 0 0 0 0	<u>3</u> -	4 1 0 0 0 0	FY 2 2 0 0	2004 3 4 0 0 0 0	1 0 0	FY 2005 2 3 0 0 0 0	4 0 0	FY 2 1 2 0 0 0 0	2006 3 0	4 1 0 0 0 0	FY 20 2 0 0	007 3 4 0 0 0 0	1 12	FY 2008 2 3 12 4 12 4		FY 2 1 2 12 12 12 12	2009 3 4 4	0 2	TC TOTAL 220 276 220 276	

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Exhibit P-3A (Individual Modification)
CLASSIFICATION: UNCLASSIFIED

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		BU	DGET ITEM	JUSTIFICA	TION SHEE	T			DATE:			
				P-40						Februa	ry 2004	
APPROPRIATION/B	UDGET ACTIVI	TY					P-1 ITEM NO	MENCLATURE	BLI 287600			
OTHER PROCUI	REMENT, NA	VY					Na	val Mission	Planning Sy	/stems (Na	vMPS) forme	erly
BA-2; Communi	cations and l	Electro	nics Equipn	nent			Tact	ical Automa	ated Missior	Planning S	System (TAI	MPS)
Program Element for	Code B Items:						Other Related	Program Elem	ents			-
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY	To Complete	Total
QUANTITY												
COST (In Millions)	\$148.0	Α	\$6.8	\$8.6	\$9.1	\$7.5	\$8.1	\$8.2	\$8.6		Cont	Cont

#### Naval Mission Planning System (NavMPS)

This line item provides funding to procure NavMPS for USN/USNR/USMC/USMCR. Program cost is not directly related to FY hardware quantity; software is a cost factor independent of FY hardware quantity and cost. Installations are planned for aviation capable ships, air stations, aviation training/support facilities and deployed aviation units. Items to be funded in this line include:

Work Station Components - NavMPS procures tactical computer hardware through the non-developmental item acquisition strategy. Tactical computer equipment is used to plan and analyze aircraft routes under various mission configurations and operational threat environments. Primary output is route plans and mission essential data loads for mission execution. New workstations consist of the components to make a complete workstation.

Production Support Services - Cost element includes production support services, engineering support services, independent verification and validation test and acceptance, site activation, quality assurance efforts, etc.

Software Releases - NavMPS produces software releases via an evolutionary acquisition process. These releases contain enhancements based on fleet inputs and emerging technology. They also contain changes required to retain compatibility with supported platforms, associated weapons, and threat and imagery data bases providing input to NavMPS. Software releases are independent of hardware buys.

PMA-233 will provide installed Mission Planning hardware, planning stations, on a 3 year replacement cycle. Mission Planning servers will be replaced on a 5 year cycle.

CLASSIFICATION:

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### **UNCLASSIFIED**

	BUDGE	T ITEM J	USTIFICATION	ON SHEET I P-40a	FOR AGGRI	EGATED IT	EMS		DATE:	Februa	ary 2004	
APPROPRIATION/BUDG	GET ACTI	VITY					P-1 ITEM NOI	MENCLATURE		BLI 287600	<b>y</b>	
										System (Nav	/MPS) forme	rlv
OTHER RECOURS	AFAIT A	141/// 54							_	-		_
OTHER PROCURE			2; Communica	ations and Ele	ctronics Equi	oment	Taci	tical Autom	ated Missioi	n Planning	System (TAI	MPS)
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY	To Complete	Total
New Workstations	A	1 00.0	1 1 2000	1 1 200 1	1 1 2000	1 1 2000	1 1 2007	1 1 2000	1 1 2000		Complete	10141
Quantity	<b>—</b> , ,	318										
Funding		18.5										
Server Suite	Α											
Quantity		11	4	6	6							
Funding		2.7	1.0	1.6	1.6							
Combat Planning Seat	Α											
Quantity		403										
Funding		14.3										
Flight Planning Seat	Α						+					
Quantity		1935	444	600	410							
Funding		10.7	2.2	3.2	2.3							
Force Planning Seat	Α						1					
Quantity		69			100							
Funding		4.0			0.5		1					
Trusted System Quantity	Α	115										
Funding		3.8										
		0.0					<u> </u>					
							+	+	<del> </del>			
Other Costs		93.9	3.6	3.8	4.7							
Total P-1 Funding	**	147.9	6.8	8.6	9.1		1		<del> </del>			
rotal P-1 Fulluling		147.9	0.0	0.0	9.1		+		<del> </del>			
** N			1				1	OL A COLFIGAT	I .	I	1	

\*\* Numbers may not add due to rounding.

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CLASSIFICATION:

## **UNCLASSIFIED**

	WEAPONS SYSTEM CO P-5	OST ANA	ALYSIS			Weapon Sy	stem							DATE: Februa	ary 2004
Other F	PRIATION/BUDGET ACTIVITY Procurement, Navy Communications and Electronics Equi	pment				ID Code <b>A</b>	Naval Mis	sion Planı	RE/SUBHEAD  ning System  Mission Pl	ns (NavM		erly AMPS) BLI2	287600	•	
,			TOTAL COST	IN THOUS	ANDS OF D	OLLARS	1				<b>,</b>				
COST	ELEMENT OF COST	ID Code	Prior Years		FY 2003			FY 2004			FY 2005			FY 2006	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cos
S7400	New Work Stations	А	18,479												
S7401	Server Suite	Α	2,701	4	258	1,030	6	267	1,600	6	271	1,626			
S7402	Combat Planning Seat	А	14,323												
S7403	Flight Planning Seat	Α	10,705	444	5	2,217	600	5	3,200	410	5	2,250			
S7406	Force Planning Seat	А	3,986							100	5	500			
S7407	Trusted System	Α	3,812												
S7410	Software Release		54,081			978			1,188			2,039			
S7430	Production Support		32,834			1,731			1,728			2,028			
S7900	Non-FMP Installation		6,220			851			835			655			
S7910	FMP Installation		743												
	Total **		147,884	448		6,807	606		8,551	516		9,098			
DD FORM	M 2446, JUN 86	P-1 SH	OPPING LIST		ı			1	2,30.			CLASSIFICAT	ION:	1	

\*\* Numbers may not add due to rounding.

ITEM NO. 65

PAGE NO. 3

BUDGET PROCUREN	IENT HISTO	DRY AND I	PLANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
				,					ebruary 2	004
B. APPROPRIATION/BUDGET	ACTIVITY			C. P	-1 ITEM NOMENCLA	ATURE			SUBHEAD	
Other Procurement, N	lavy			Naval Mission Pla	anning Systems (	(NavMPS) formerly			J2	S7
BA-2; Communication	ns and Elec	tronics Ed	quipment	Tactical Automate	d Mission Planni	ng System (TAMPS)	BLI 28760			
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY03</u>			SPAWAR 1/ Phil, PA	N/A	C/FP	Dell/ Phil, PA	01/03	3/03	Yes	
Server Suite Flight Planning Seat	4 444	258 5								
<u>FY04</u>			SPAWAR 1/ Phil, PA	N/A	C/FP	Dell/ Phil, PA	01/04	3/04	Yes	
Server Suite Flight Planning Seat	6 600	267 5								
<u>FY05</u>			SPAWAR 1/ Phil, PA	N/A	C/FP	TBD	01/05	3/05	Yes	
Server Suite Flight Planning Seat	6 410	271 5								
Force Planning Seat	100	5								
D. DEMARKO	At Otro socilo		Ourtests as		ANNAR OOG OALR	Office Division line	0			

D. REMARKS

P-1 SHOPPING LIST ITEM NO. 65 Classification: DD Form 2446-1, JUL 87

<sup>1/</sup> Streamlined acquisition process. Contracts are coordinated through SPAWAR SSC C4I Programs Office, Philadelphia. Contracts are awarded for COTS hardware on a best value basis. The existing NAVAIR CAD2 contract with Intergraph Corp. will be utilized if it meets requirements and provides best cost.

CLASSIFICATION:	LINCL	ASSIFIED

INDIVIDUAL MODIFICATION

Aviation Capable Ships, Air Stations

Aviation Units, Aviation Training

MODELS OF SYSTEM AFFECTED: Support Facilities TYPE MODIFICATION: Added Capability MODIFICATION TITLE: Naval Mission Planning Systems (NavMPS) formerly

Tactical Automated Mission Planning System (TAMPS) BLI 28760

#### DESCRIPTION/JUSTIFICATION:

NavMPS provides USN and USMC planners a common automated system for rapidly processing large quantities of digitized terrain, threat and environmental data, and aircraft and weapon system parameters.

DEVELOPMENT STATUS/MAJOR DEVEL	OPMENT N	/ILESTO	NES:				Navl	MPS is p	ost n	nileston	e III			_									
	FY 2002 & QTY	Prior	QTY	FY 2003	<u>FY</u> QTY	<u>2004</u> \$	<u>FY</u> QTY	2005 \$		<u>/ 2006</u> \$	<u>FY</u> QTY	2007 \$		<u>2008</u>	<u>FY</u> QTY	<u>′ 2009</u> \$	QTY	\$	QTY	\$ QTY	TC \$	TO QTY	<u>TAL</u> \$
FINANCIAL PLAN (IN MILLIONS)																							
RDT&E 0604231N		65.0		24.1		25.0		11.0															
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							<u> </u>
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	2851	54.0	448	3.2	606	4.8	516	4.4															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							ĺ '
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER-SOFTWARE RELEASE		54.1		1.0		1.2		2.0															
OTHER-PRODUCTION SUPPORT		32.8		1.7		1.7		2.0															ĺ '
OTHER																							
INTERIM CONTRACTOR SUPPORT								<u> </u>										<u> </u>					
INSTALL COST	2851	7.0	448	0.9	606	0.8	516	0.7										<u> </u>					
TOTAL PROCUREMENT **		147.9		6.8		8.6		9.1															
**Numbers may not add due to rounding.	•								ITE	M NO. 65	5	Р	PAGE	5		·				 CLA	SSIFICATION	ON: UNCL	ASSIFIED

<sup>\*\*</sup>Numbers may not add due to rounding.

CLASSIFICATION: UNCLAS	SIFIED																							
P3A (Continued)						INDIVIDU	AL MO	DIFICATIO	N (Co	ntinued)														
		Avia	ation Ca	apable Ship	s, Air	Stations																		
		Avia	ation Ur	nits, Aviatio	n Trair	ning						Naval M	ission f	Planning S	Systems	(NavMPS)	former	ly						
MODELS OF SYSTEMS AFFI	ECTED:	Sup	port Fac	cilities				MO	DIFICA	ATION TITLE	Ε:	Tactical	Autom	ated Miss	ion Plan	ning Syster	m (TAM	PS) BLI	28760	0				
																					_			
INSTALLATION INFORMATION	ON:																							
METHOD OF IMPLEMENTAT	ION:	Field Ins	tallatio	n Team																				
ADMINISTRATIVE LEADTIME	Ε:	3 to 4	Mont	ths			_	PRODUC	TION I	LEADTIME:			2 Mon	ths										
CONTRACT DATES:	FY 200	03:	Jan-0	03	_			FY 2004:		Jan-04				F,	Y 2005:	Jai	n-05							
DELIVERY DATE:	FY 200	03:	Mar-0	03		-		FY 2004:		Mar-04				F'	Y 2005:	Ma	ar-05		_					
						=													_					
										(\$ in Mil	llions)													
Cost:	Pric	or Years	F	Y 2003	F	Y 2004	F	Y 2005		FY 2006	F	Y 2007	F	Y 2008	F	Y 2009		FY		FY	To C	Complete	Total	I
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	2851	7.0																					2851	1 6.2
																								Ī
																								8.0
FY 2003 EQUIPMENT			448	0.9																			448	0.9
FY 2004 EQUIPMENT					606	0.8																	606	8.0
FY 2005 EQUIPMENT							516	0.7															516	0.7
FY 2006 EQUIPMENT																								
FY 2007 EQUIPMENT																								
FY 2008 EQUIPMENT																								
FY 2009 EQUIPMENT																							<u> </u>	
TO COMPLETE																								
INSTALLATION SCHEDUL									_								_							
FY 2002		FY 2003			<u> 2004</u>			2005		FY 2006			Y 2007		<u>FY</u>	2008		FY 2009	!	TC				
& Prior	1	2 3	4	1 2	3	4 1	2	3 4	1	2 3	4	1 2	3	4 '	1 2	3 4	1	2 3	4	4	TO	TAL		
ln 2851		448		606			516																	
Out 2851		224	224		303	303		282 234	] [															
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								ITEM	NO. 65	5	PA	AGE 6						CL	ASSI	FICATIO	N: UNC	CLASSIFIE	ט	

BUDGET ITEM JUSTIF	FICATION							DATE	Februa	ry 2004
APPROPRIATION/BUI OP,N - BA2 COMMUNI	_	JIPMENT				P-1 ITEM NON DJC2 (#2804)	IENCLATURE		SUBHEAD 52JH	
	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)			\$51.7	\$32.5	\$27.9		\$58.8		CONT.	CONT.

#### Narrative Description/Justification:

(U) Deployable Joint Command and Control (DJC2) is a SecDef and CJCS priority DoD transformation initiative that provides a deployable, scalable and tailorable headquarters command and control (C2) capability for each Regional Combatant Commander (RCC), and one maritime variant. It is the materiel solution to Standing Joint Force Headquarters (SJFHQs), a new capability to be implemented at each RCC starting in FY05. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. SecDef direction for the DJC2 program is contained in Defense Planning Guidance (DPG 03-07 and updated in DPG 04-09). The DJC2 program addresses both the Quadrennial Defense Review (QDR) finding that a joint command and control architecture needs to be developed for standing JTFs at each of the RCCs and the need for a deployable Joint Command and Control System described in the Transformation Study Report presented to the Secretary of Defense, April, 2001. It integrates the requirements for and lessons learned from U.S. Central Command's deployable headquarters funded from the FY 2001 Emergency Supplemental Act for Recovery from and Response to Terrorist Attacks on the United States. DJC2 is supported by SECDEF and CJCS. The JCS/Joint Requirement Oversight Council (JROC) has approved the DJC2 Mission Needs Statement (MNS) and directed that an Operational Requirements Document (ORD) be produced in 2003.

DJC2 seeks to provide standing, and standardized, joint C2 systems that can be deployed by RCCs or JTFs, remedying the current unproductive practice of relying on ad hoc, unresourced, and stove-piped capabilities cobbled together at the last minute during a crisis. It will support the new SJFHQ concept and doctrine being developed by Joint Forces Command in coordination with other RCCs and the Joint Staff, as tasked by DPG. RCC and JTF commanders will use a deployable joint command and control capability for day-to-day operations (including peacetime), as wel as when deployed for training or contingency operations. The capability is intended for all levels of conflict and will be reconfigurable to meet specific RCC and JTF mission requirements. This capability must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

DJC2 site and unit descriptions are as follows: 4 DJC2 systems garrisoned at PACOM Camp H.M. Smith, HI; SOUTHCOM Miami, FL; CENTCOM MacDill AFB, FL; and EUCOM Stuttgart, Germany There is also one Maritime Unit to be procurred in FY08. Beginning in FY05, the JFCOM experimentation unit procured with RDT&E will become a production representative POR site and will be upgraded accordingly.

Note that DJC2 is not a follow-on or replacement system for either the joint Global Command and Control System (GCCS) or GCCS-Maritime; rather, DJC2 will utilize GCCS in its core suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J/GCCS-M.

	COST ANALYSIS									DATE		Feb	ruary 20	004	
APPROPE	RIATION ACTIVITY						P-1 IT	EM NOM	IENCLAT	URE			SUBH	EAD	
	-2 COMMUNICATIONS AND ELECTRONIC EQUIPM	IFNT					DJC2 (						002	52JH	
O. ,. ( B) (	2 COMMONION CONTROL OF THE PERSON OF THE PER	1					0002	,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>						02011	
			PY		FY 2002	)		FY 200	3		FY 200	4		FY 200	)5
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST		COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
CODE	ELEMENT OF COST	CODE	COST	QII	0031	COST	QII	6031	6031	QII	COST	CO31	QII	6031	0031
JH100	Deployable Joint Command and Control	В								2	23,083	46,165	1	23,933	23,933
JH200	DJC2 Upgrades	Α											2	4,268	8,536
JH300	Congressional Add: Site Preparations											5,520			
	TOTAL CONTROL											51,685			32,469

DD FORM 2446, JUN 86 P-1 Shopping List No. 66-2 of 66-4 Exhibit P-5

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT DJC2 (#2804) 52JH CONTRACTOR CONTRACT RFP DATE SPECS DATE LOCATION COST **ELEMENT OF COST** AND METHOD ISSUE AWARD OF FIRST QTY UNIT **AVAILABLE** REVISIONS CODE LOCATION OF PCO DATE DATE **DELIVERY** COST AVAILABLE & TYPE NOW JH100 DJC2 NSWC CSS, Panama City 2 04 WX Panama City, FL N/A Feb-04 Feb-05 23,083 NO N/A 05 TBD TBD Panama City, FL Oct-04 Dec-04 Dec-05 1 23,933 NO N/A TBD JH200 DJC2 Upgrades 05 TBD Panama City, FL Oct-04 Dec-04 Apr-05 2 4,268 NO N/A JH300 Congressional Add: Site Preps NSWC CSS, Panama City WX TBD TDB N/A N/A 04 Panama City, FL 5,520 NO D. REMARKS

P-1 Shopping List-Item No 66-3 of 66-4

							PR	OD	UC.	TIO	N S	СНІ	EDI	JLE											DAT	Έ		F	ebru	uary	200	4	
																			(DOE	EXH	IIBIT	P-21)	)										
	PRIATION/BUDGET ACTIVITY BA-2 COMMUNICATIONS AND ELECTRONIC E	EQUIPMENT														<b>MENO</b> 2804)	CLAT	URE										<b>HEA</b> 52J⊢	D NO	١.			
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COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE	CY									R YE			04						END		_		05				_
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JH100	DJC2	04		2	0	2					Α												1	1									
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JH200	DJC2 Upgrades	04		0	0	0																						$\rightarrow$		$\vdash$	-	$\dashv$	
311200	D3C2 Opgrades	05		2	0	2	1														Α				1	1		$\dashv$		$\vdash$	-+	$\dashv$	Γ
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			PRODUCTION RATE			PROCUREME	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
DJC2	TBD				1		11		12 mo.	
DJC2 Upgrades	TBD				1		3		4 mo.	

P-1 Shopping List-Item No 66-4 of 66-4

**Exhibit P-21 Production Schedule** 

Unclassified

Classification

BUDGET ITEM JUSTIF	ICATION S	HEET						DATE	February 2004		
APPROPRIATION/BUDGET AC	TIVITY					P-1 ITEM NOM	ENCLATURE	-		SUBHEAD	
OP,N - BA2 COMMUNICATIONS	& ELECTRONIC	EQUIPMENT				BLI 2901 NAVA	L SPACE SURVI	EILLANCE SYST	EM (NSSS)	52WV	
	PY	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
QUANTITY											
COST (in millions)			\$2.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2.0

Effective FY 2004, The NSSS Program transfers to the Air Force.

The Naval Network and Space Command (NNSOC), headquartered at Dahlgren, Virginia, has operated the Naval Space Surveillance System (NSSS), since 1961. The components of NSSS, also known as "the Fence", are the Sensor and associated mission processing systems which are a critical part of the overall national space surveillance network. The only dedicated, uncued sensor in the world, NSSS provides satellite position information to the United States Naval Fleet as well as satellite manueuver detection and collision avoidance data to the Department of Defense (DoD) National Aeronautics and Space Administration (NASA) and the International Space Station for launch protection and orbit analysis. NSSS also serves as the Alternate Space Control Center (ASCC) to Space Control Center in Cheyenne Mountain, Colorado. Obsolete and aging components impact the ability to maintain a constant surveillance (catalog). Procurement of computer system hardware and software is necessary to adequately manage catalog growth and increased workload caused by lack of ephemerides. Ephemerides are computerized listings of tracks and predictions of locations of both space debris (older orbital objects and other national launches which failed to properly return from orbit) and current active in-use satellites. The ongoing Service Life Extension Program (SLEP) of the NSSS is necessary to ensure continued operation of the nation's only unalerted space sensor.

The surveillance mission is accomplished by sub-systems performing four operational functions as follows:

- 1. Sensor: Data acquisition of satellites "radar" signals is performed by a network of three transmitting and six receiving stations located along a great circle arc across the southern United States.
- 2. C2 Connectivity: Each receiver station is connected to Dahlgren by a dedicated network of phone lines for data transfer. The network also links all field stations and Dahlgren for network operational and administrative coordination.
  - 3. Command Center: Satellite detection and correlation with predictions is performed at the Dahlgren Center.
  - 4. Processing: Storage, retrieval, and updating of orbital elements of past, present, and future paths of all known orbital objects are performed at Dahlgren.

#### Notes:

The NSSS program maximizes the use of Commercial off the Shelf (COTS) software and hardware.

P-1 Shopping List - Item No. 67-1 of 67-2

Exhibit P-40, Budget Item Justification
UNCLASSIFIED
CLASSIFICATION

										DATE				
	COST ANALYSIS											Feb	oruary 2004	
APPROPRI	ATION ACTIVITY						P-1 ITEM NO	OMENCLATI	JRE			SUBHE	AD	
OP,N - BA-2	COMMUNICATIONS AND ELECTRONIC EQUIPMENT						BLI 2901 Nav	al Space Su	rveilland	e System (NS	SS)		52WV	Ì
										N THOUSAN		LLARS	3	
				FY 2002	!		FY 2003	3		FY 2004			FY 200	5
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
WV006	LIFE EXTENSION	Α						1,992			0			0
	C2 Connectivity - Hardware & Software					VAR	N/A	0						
	Command Center - Hardware & Software					VAR	N/A	0						
	Mission Processing - Hardware & Software					VAR	N/A	0						
	Sensor - Hardware & Software					VAR	N/A	1,992						
WV555	PRODUCTION SUPPORT							0			0			0
******	PRODUCTION SUPPORT							Ů			U			Ů
	TOTAL							1,992			0			0
								,						

							DATE		February 2004	
APPROPRIATION/BU	DGET ACTIVITY			P-1 ITEM NOME			•		SUBHEAD	
OP,N - BA-2 COMMUN	NICATIONS & ELECT	RONIC EQUIPME	NT	BLI 2905 Def	ense Integrated	Military Human	Resources Sys	tem (DIMHRS)	52NQ	T
	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)	0	0.0	5.7	0	0	0	0	0	0	5.7

#### PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

The Defense Integrated Military Human Resources System (DIMHRS)(Pers/Pay) will be a single integrated, all Service, all Component military personnel and pay management and information system, supporting the complete military personnel life cycle through the full spectrum of military operations. The core will consist of common functions and appropriate interfaces to support Component/Service-unique functions. Military personnel functions support Active Duty, Retired, and Reserve Component personnel (and their families) throughout their entire military careers. Additionally, these functions support DoD-sponsored personnel during contingency and wartime operations. Individual Service business policies, practices, and processes will be examined and re-engineered, or combined with "best practice" solutions to satisfy DIMHRS (Pers/Pay) core functional requirements. These core functions address the personnel communities' support to: 1) meet the operator's mission requirements across the full spectrum of force mobilization and employment from peacetime to war, and 2) eliminate business policies and practices that create inequities among the Services and complicate processing. These core functions, while macro in nature, will be continuously validated to ensure the Program remains aligned with DoD and Joint warfighting strategies, objectives, and goals.

DIMHRS is to be delivered in increasing capability increments, and as such, the hardware and software purchases are needed to support incremental deployment activities of its useful assets. Evolutionary acquisition is supported, as some useful assets will be deployed sequentially with other segments in the development phase. This approach matches the DIMHRS acquisition strategy to improve the delivery of military personnel and pay services and to enrich current readiness, contingency, and peacekeeping operations. Othe procurement costs for the DIMHRS FY 2003-2004 are required to cover COTS hardware and software purchases for acquisition activities related to deployment of useful assets.

FY2004 Plan: (\$5.700M)

Continue procurement of various hardware and software applications to support the DIMHRS acquisition strategy as related to the deployment of Useful Assets (UAs).

FY2005 Plan: N/A

cos	ANALYSIS												DATE	February	2004
APPROPRIATION ACTIVITY				P-1 ITEN	/ NOMEN	CLATURE							SUBHE	AD	
OP,N - BA-2 COMMUNICATIONS AND	ELECTRONIC EQUIPMENT						Military Hu	man Reso	ources Syster	n (DIMHRS	3)		52NQ		
							TOTA	L COST II	N THOUSAN	DS OF DO	LLARS				
			PY		FY 200			FY 200			FY 2004			FY 200	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE ELEME	NT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NQ001 Hardware/Software (Vari	ous)	В					Var	10	10	Var	5,700	5,700			
Remarks:	TOTAL CONTROL					0			10			5,700			0

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD BLI 2905 Defense Integrated Military Human Resources System (DIMHRS 52NQ OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT CONTRACTOR RFP DATE CONTRACT SPECS DATE COST **ELEMENT OF COST** FΥ AND METHOD LOCATION ISSUE AWARD **OF FIRST** QTY UNIT **AVAILABLE** REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE **DELIVERY** COST NOW AVAILABLE 5.700 NQ001 Hardware/Software C/FP **HQ SPAWAR** N/A Various various Apr-04 Var Yes

#### D. Remarks:

"Various" quantities represent system and subsystem upgrades of various hardware/software configurations that are dependent upon the type of site or platform.

	BUDGET	ITEM J	USTIFICA	TION SHE	ET		DATE:				
			P-40					Fe	bruary 20	04	
APPROPRIATION/B	UDGET ACTIV	ITY				P-1 ITEM NO	OMENCLATU	RE			
Other Procurement	, Navy										
BA 2/Common Imag	gery Ground/S	urface S	System			Common Im	nagery Grour	d Surface S	stems (CIG	SS) BLI: 2914	.00
Program Element for	Code B Items:					Other Relate	d Program El	ements			
						0305208N					
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST (In Millions)	208.5		51.2	40.3	53.2	16.1	74.3	117.3	61.8	Cont.	Cont.

\*Note: All previous procurement budgets for this item were submitted in the procurement, Defense-Wide appropriation as Distributed Common Ground Systems (DCGS), P.E. 0305208D8Z.

The Joint Services Imagery Processing System – Navy (JSIPS-N) is the Navy's portion of an OSD/Defense Airborne Reconnaissance Office (DARO) effort entitled Distributed Common Ground System (DCGS). DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS is further subdivided into systems which process, exploit, and disseminate Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery data. Cooperative imagery processing systems are collectively identified under the general heading of Common Imagery Ground/Surface Systems (CIGSS). JSIPS-N is the Navy CIGSS component.

JSIPS-N has the capability to receive, process, exploit, store, and disseminate imagery, imagery-derived products, and Imagery Intelligence (IMINT) reports based on multiple inputs from multiple sources. The primary mission of JSIPS-N is to assist strike planners, tactical aviators, and Marine Corps amphibious planners in the delivery of precision ordnance (including Tomahawk Cruise Missiles) on target.

JSIPS-N includes three major components:

<u>Softcopy</u> <u>Exploitation</u> <u>Segment</u> (<u>SES</u>) - consisting of the Digital Imagery Workstation Suite Afloat (DIWSA), Strike Planning Archive (SPA) and the Precision Targeting Workstation (PTW).

National Input Segment (NIS) - equipment which processes imagery from national sensors

Tactical Input Segment (TIS) - equipment which processes imagery from tactical sensors.

JSIPS-N is onboard aircraft carriers (CV/CVN), amphibious assault ships (LHA/LHD), select fleet flag ships (AGF/LCC) and shore sites.

Secondary missions of the system are to provide near-real-time imagery and support to fleet intelligence assets, Special Operations Forces, and to support primary exploitation and dissemination of tactical organic and theater IMINT products.

CLASSIFICATION:

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CLASSIFICATION: UNCLASSIFIED

**WEAPONS SYSTEM COST ANALYSIS** DATE: February 2004 P-5 APPROPRIATION/BUDGET ACTIVITY P-1 ITEM NOMENCLATURE/SUBHEAD Other Procurement, Navy BA 2/Common Imagery Ground/Surface System Common Imagery Ground Surface Systems (CIGSS) BLI: 291400 TOTAL COST IN THOUSANDS OF DOLLARS ID COST Prior FY 2003 **ELEMENT OF COST** FY 2004 FY 2005 CODE Code Years **Total Cost** Quantity Unit Cost **Total Cost** Quantity Unit Cost **Total Cost** Quantity **Unit Cost Total Cost** 01000 Tactical Input Segment (TIS) 44,400 6 2,578 15,468 6 2,689 16,134 01500 TIS Retrofit 4,000 02000 SPA/PTW 17,209 455 3.640 464 1,856 03000 Procurement Support 40,968 3,542 3,880 3,880 04000 Product Improvements 46,955 14,072 15,361 16,183 Battle Group H/W and S/W Integration 05000 31,801 9,198 12,791 10,876 06000 Equipment Support 23,202 5,237 6,400 6,100 **TOTAL** 208,535 51,157 40,288 53,173

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P-1 SHOPPING LIST

PAGE NO. 2

CLASSIFICATION:

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CLASSIFICATION: UNCLASSIFIED

**BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)** Weapon System A. DATE February 2004 C. P-1 ITEM NOMENCLATURE B. APPROPRIATION/BUDGET ACTIVITY SUBHEAD Common Imagery Ground Surface Systems Other Procurement, Navy BA 2/Common Imagery Ground/Surface System (CIGSS) BLI: 291400 J25EJ25E CONTRACT METHOD & TYPE DATE OF TECH DATA AVAILABLE DATE REVISIONS UNIT COST (000) Cost Element/ FISCAL YEAR QUANTITY LOCATION OF PCO RFP ISSUE DATE CONTRACTOR AND LOCATION AWARD DATE **DELIVERY** NOW? AVAILABLE JSIPS-N Components 01000 TIS FY 2003 \$ 2,578 ESC Hanscom AFB, N/A SS/FFP Lockheed Martin May 03 Nov 03 Yes N/A 6 Gaithersburg, MD MA FY 2004 0 FY 2005 2,689 ESC Hanscom AFB, N/A SS/FFP Lockheed Martin Jan 05 Jul 05 Yes N/A MA Gaithersburg, MD 02000 SPA/PTW FY 2003 8 \$ 455 SPAWAR, San Diego, N/A SS/FFP Feb 03 May 03 Yes N/A Various 464 SPAWAR, San Diego, FY 2004 \$ N/A SS/FFP Various Feb 04 May 04 Yes N/A FY 2005 \$ 0 D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

ITEM NO. 69 PAGE NO. 3

FY 2005 BUDGET PRODUCTI			ULE, I	P-21														DATE			Feb	rua	ry 2	004						
APPROPRIATION/BUDGET AC Other Procurement, Nav BA 2/Common Imagery (	y		ırfac	e Sy:	stem								Wea	apon		stem		Cor (CI0	ITEM nmor 3SS)	ı In BL	nage	ery (	Gro			face	Sy	stem	ıs	
							Pro	duct	ion I	Rate								nt Le	adtim	es										
Item Tactical Input Segment (TIS)	Lockh		ırtin	urer's ₋ocatio	on	M N/A		EC N/A	ON	M/A	AX		T Pi Oct 0			T Af Oct 7			nitial fg PL 6	Τ		eord fg P 6			Tota 13			Un Mea LO		
Precision Targeting Workstation (PTW)	Vario	ous				N/A	<b>\</b>	N/A	<b>\</b>	N/A	<b>.</b>		0			4			3			3			7			LOC	<u> </u>	
																											⊬			
ITEM / MANUFACTURER	F	S	Q	D	В		2001		F	ISCAL	. YEAF			NDAD	VEAL	R 2002	2					FIS		EAR LEND		EAD	2003			
TIEW/ WANDFACTOREK	Y	V C	T Y	E L	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T		D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
TIS - Lockheed, Gaithersburg, MD	03	N	6	0	6		·	_		_		• •	•		Ē	_	•		•	Ť	.,			Ė	Α		H	Ť		6
PTW - Various	03	N	8	0	8																	A			8					0
										EIS	CAL Y	EVD .	2004									EIS		EAR	2005		느			
ITEM / MANUFACTURER	F	s	Q	D	В		2003			1130	JAL I			NDAR	YFAI	₹ 2004	1					1130		LENE		FAR 2	2005			i
	Y	V C	T Y	E	A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	O C T		D E C	J A N	F E B	M A R	A P R	M A Y	J	J U L	A U G	S E P	B A L
TIS - Lockheed, Gaithersburg, MD PTW - Various TIS - Lockheed, Gaithersburg, MD	03 04 05	N N N	6 4 6	0 0 0	6 4 6		2	2	2	Α			4								Α						2	2	2	0
PTW -	05	N	0	0	0																									0
Remarks:																														

DD Form 2445, JUL 87

311 / 244

Previous editions are obsolete

P-1 SHOPPING LIST

ITEM NO. 69 PAGE NO. 4

### **UNCLASSIFIED**

		E	SUDGET ITEM	I JUSTIFIC <i>i</i>	ATION SHEE	T			DATE:			
				P-40						FEBRU <i>A</i>	ARY 2004	
APPROPRIATION/BUD	GET ACTIVIT	ΓΥ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCURE	MENT, NA	VY/BA-2	2 Communica	itions and E	lectronics		RADIAC BL	.I: 292000 S	BHD: 82M2			
Program Element for Co	de B Items:						Other Related I	Program Eleme	nts			
	Prior	ID									То	
	Years	Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY												
COST												
(In Millions)				\$8.2	\$8.5	\$9.1	\$8.6	\$9.4	\$9.5	\$9.1	N/A	\$62.4
SPARES COST												
(In Millions)												

The Radiation Detection, Indication and Computation (RADIAC) Program is responsible for providing radiation monitoring instruments that detect and measure radiation in accordance with the provisions of Title 10 of the Code of Federal Regulations (10CFR). These instruments are used on all vessels afloat and at every shore installation in order to ensure the safety of personnel and the environment. RADIACs are also required after an act of terrorism or war that involves nuclear material in order to enable continuing warfighting ability.

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CLASSIFICATION:

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ronics Equipr	TOTAL COS	T IN THOUS		ID Code	P-1 ITEM N	OMENCLATUR	RE/SUBHEAD	· · · · · ·				SUBHEAD:	
ID	TOTAL COS	T IN THOUS											
		I IN THOUS	ANDO OF DO		RADIAC	BLI: 2920	00					82M2	
			ANDS OF DO	LLAKS									
	2					FY 2003			FY 2004			FY 2005	
	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
Α					40	1.338	54	500	1.363	682	549	1.389	763
Α							0	5	5.424	27	123	5.527	680
Α							0			0			0
Α							0			0			0
Α					736	3.888	2,862	464	3.981	1,847	342	4.391	1,502
Α					49	1.083	53	5	1.102	6	106	1.123	119
А					20	2.040	41	490	3.461	1,696	243	2.116	514
					14 29,225 0 6 27 50	7.992 0.027 0.000 152.400 7.992 4.064	112 799 0 914 216 203 128	15 8 4 28 50	8.136 28.689 155.143 8.136 4.137	122 0 230 621 228 207	23 23 9 27	8.290 29.234 158.091 8.290	191 0 672 1,423 224
A							903			909			999
A													236
													100
							519			523			526
А							1,046			1,109			1,138
	A	A	A	A		A		A 221 102 519 A 1,046	A 221 102 519 A 1,046	A 221 102 519 A 1,046	A 221 218 100 519 523 A 1,046 1,109	A 221 218 100 519 523 1,046 1,109	A 221 218 100 523

> ITEM NO. 70 PAGE NO. 2

# **UNCLASSIFIED**

BUDGET PROCUREME	NT HISTOR	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE	EBRUARY 2	2004
B. APPROPRIATION/BUDGET AC Other Procurement, N					C. P-1 ITEM NON	<u> </u> MENCLATURE			SUBHEAD	004
BA-2 Communication	•	ctronics	Equipment		RADIAC B	LI: 292000			82M2	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2003										
MFR CONTROL UNIT	40	1.338	SPAWARSYSCEN	10/02	C/FP	SAIC/SAN DIEGO	1/03	10/03	YES	l
ALPHA PROBE	736	3.888	SPAWARSYSCEN	11/00	OPT	TBD	1/03	10/03	YES	l
MFR CHECKSOURCE KITS	49	1.083	SPAWARSYSCEN	7/02	C/FP	TBD	1/03	10/03	YES	l
FRISKER STATION	20	2.040	SPAWARSYSCEN	9/02	C/FP	TBD	1/03	10/03	YES	l
CP-1112 UPGRADES	14		SPAWARSYSCEN	NA	NA	LANTORDCOM YORKTOWN	1/03	10/03	YES	l
DOSIMETERS	29,225		SPAWARSYSCEN	4/02	OPT	BICRON/ST. GOBAIN, OH	1/03	10/03	YES	l
SHOREBASED READER	6		SPAWARSYSCEN	4/02	OPT	BICRON/ST. GOBAIN, OH	1/03	10/03	YES	l
DOSIMETER IRRADIATOR DOSIMETER AREA MONITOR	27 50		SPAWARSYSCEN SPAWARSYSCEN	4/02 NA	OPT C/FP	BICRON/ST. GOBAIN, OH NSWC CARDEROCK	1/03 1/03	10/03 10/03	YES YES	l

D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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### CLASSIFICATION: UNCLASSIFIED

490

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**BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)** Weapon System A. DATE **FEBRUARY 2004** B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD Other Procurement, Navy **BA-2 Communications and Electronics Equipment RADIAC BLI: 292000** 82M2 CONTRACT METHOD DATE OF FIRST DATE REVISIONS Cost Element/ QUANTITY UNIT COST LOCATION OF PCO RFP ISSUE CONTRACTOR AWARD AVAILABLE FISCAL YEAR DATE & TYPE AND LOCATION DATE DELIVERY NOW **AVAILABLE** (000) FY 2004 MFR CONTROL UNIT 500 1.363 SPAWARSYSCEN 10/02 OPT SAIC/SAN DIEGO 1/04 10/04 YES **NEUTRON INTERFACE** 5.424 SPAWARSYSCEN 11/03 C/FP TBD 4/04 1/05 YES ALPHA PROBE 464 3.981 SPAWARSYSCEN 11/00 OPT **TBD** 1/04 10/04 YES

OPT

C/FP

NA

OPT

OPT

OPT

C/FP

**TBD** 

**TBD** 

LANTORDCOM YORKTOWN

**TBD** 

**TBD** 

**TBD** 

**NSWC CARDEROCK** 

1/04

1/04

1/04

1/04

1/04

1/04

1/04

10/04

10/04

10/04

10/04

10/04

10/04

10/04

YES

YES YES

YES

YES

YES

YES

7/02

9/02

NA

4/02

4/02

4/02

NA

D. REMARKS

MFR CHECKSOURCE KITS

FRISKER STATION

**CP-1112 UPGRADES** 

SHIPBOARD READER

SHOREBASED READER

DOSIMETER IRRADIATOR

DOSIMETER AREA MONITOR

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

1.102 SPAWARSYSCEN

2.077 SPAWARSYSCEN

8.136 SPAWARSYSCEN

28.689 SPAWARSYSCEN

155.143 SPAWARSYSCEN

8.136 SPAWARSYSCEN

4.137 SPAWARSYSCEN

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Cost Element/FISCAL YEAR   QUANTITY	<b>BUDGET PROCUREME</b>	NT HISTOI	RY AND P	LANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
Cost Element/FISCAL YEAR   QUANTITY   UNIT COST (000)   LOCATION OF PCO   PC									F	EBRUARY 2	2004
RADIAC BLI: 292000   S2M2	B. APPROPRIATION/BUDGET A	CTIVITY				C. P-1 ITEM NON	MENCLATURE			SUBHEAD	
Cost Element/Fiscal Year   QUANTITY   UNIT COST (000)   COST (000)	Other Procurement, I	Navy								ĺ	
Cost Element/FISCAL YEAR   QUANTITY   UNIT COST (000)   COPCO   RFP ISSUE DATE   METHOD & CONTRACTOR AND LOCATION   DATE   DELIVERY   AVAILABLE NOW   REPRISED NOW   REPR	<b>BA-2 Communication</b>	ns and Ele	ectronics	Equipment			LI: 292000				
MFR CONTROL UNIT         549         1.389         SPAWARSYSCEN         10/02         OPT         SAIC/SAN DIEGO         1/04         10/04         YES           NEUTRON INTERFACE         123         5.527         SPAWARSYSCEN         11/03         C/FP         TBD         4/04         1/05         YES           ALPHA PROBE         342         4.391         SPAWARSYSCEN         11/00         OPT         TBD         1/04         10/04         YES           MFR CHECKSOURCE KITS         106         1.123         SPAWARSYSCEN         7/02         OPT         TBD         1/04         10/04         YES           FRISKER STATION         243         2.116         SPAWARSYSCEN         9/02         C/FP         TBD         1/04         10/04         YES           CP-1112 UPGRADES         23         8.290         SPAWARSYSCEN         NA         NA         LANTORDCOM YORKTOWN         1/04         10/04         YES           SHIPBOARD READER         23         29.234         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           SHOREBASED READER         9         158.091         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/		QUANTITY	COST			METHOD			FIRST	AVAILABLE	DATE REVISIONS AVAILABLE
NEUTRON INTERFACE         123         5.527         SPAWARSYSCEN         11/03         C/FP         TBD         4/04         1/05         YES           ALPHA PROBE         342         4.391         SPAWARSYSCEN         11/00         OPT         TBD         1/04         10/04         YES           MFR CHECKSOURCE KITS         106         1.123         SPAWARSYSCEN         7/02         OPT         TBD         1/04         10/04         YES           FRISKER STATION         243         2.116         SPAWARSYSCEN         9/02         C/FP         TBD         1/04         10/04         YES           CP-1112 UPGRADES         23         8.290         SPAWARSYSCEN         NA         NA         LANTORDCOM YORKTOWN         1/04         10/04         YES           SHIPBOARD READER         23         29.234         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           SHOREBASED READER         9         158.091         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           DOSIMETER IRRADIATOR         27         8.290         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04	FY 2005										
ALPHA PROBE  ALPHA PROBE  MFR CHECKSOURCE KITS  MFR CHECKSOURCE KITS  MFR CHECKSOURCE KITS  MFR CHECKSOURCE KITS  MFR CHECKSOURCE KITS  106  1.123  SPAWARSYSCEN  7/02  OPT  TBD  1/04  1/04  1/04  YES  FRISKER STATION  C/FP  TBD  1/04  1/04  1/04  YES  C/FP  TBD  1/04  1/04  1/04  YES  ALANTORDCOM YORKTOWN  1/04  1/04  YES  SHIPBOARD READER  SHOREBASED READER  9  158.091  SPAWARSYSCEN  4/02  OPT  TBD  1/04  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  OPT  TBD  1/04  1/04  1/04  YES  DOSIMETER IRRADIATOR						_				_	
FRISKER STATION         243         2.116 SPAWARSYSCEN         9/02         C/FP         TBD         1/04 10/04 YES           CP-1112 UPGRADES         23         8.290 SPAWARSYSCEN         NA         NA         LANTORDCOM YORKTOWN 1/04 10/04 YES           SHIPBOARD READER         23         29.234 SPAWARSYSCEN 4/02 OPT TBD 1/04 10/04 YES         TBD 1/04 10/04 YES           SHOREBASED READER         9         158.091 SPAWARSYSCEN 4/02 OPT TBD 1/04 10/04 YES           DOSIMETER IRRADIATOR         27         8.290 SPAWARSYSCEN 4/02 OPT TBD 1/04 10/04 YES											
CP-1112 UPGRADES         23         8.290         SPAWARSYSCEN         NA         NA         LANTORDCOM YORKTOWN         1/04         10/04         YES           SHIPBOARD READER         23         29.234         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           SHOREBASED READER         9         158.091         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           DOSIMETER IRRADIATOR         27         8.290         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES	MFR CHECKSOURCE KITS										
SHIPBOARD READER         23         29.234         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           SHOREBASED READER         9         158.091         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           DOSIMETER IRRADIATOR         27         8.290         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES	FRISKER STATION						. = =			_	
SHOREBASED READER         9         158.091         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES           DOSIMETER IRRADIATOR         27         8.290         SPAWARSYSCEN         4/02         OPT         TBD         1/04         10/04         YES	CP-1112 UPGRADES		8.290	SPAWARSYSCEN	NA		LANTORDCOM YORKTOWN	1/04	10/04	_	
DOSIMETER IRRADIATOR 27 8.290 SPAWARSYSCEN 4/02 OPT TBD 1/04 10/04 YES					-						
		-			-	-				_	
	DOSIMETER IRRADIATOR	21	0.290	SPAWARSTOCEN	4/02	OFI	IBD	1/04	10/04		
										123	
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D. REMARKS

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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E	BUDGET ITE	M JUSTIFICA	ATION SHEE	T			DATE:			
		P-40					FE	<b>EBRUARY 20</b>	004	
SET ACTIVITY					P-1 ITEM NOM	IENCLATURE				
MENT, NAVY, BA	2				General Purpo	se Electronic	Test Equipmen	t GPETE)/2940		
le B Items:					Other Related I	Program Eleme	nts			
ID	Prior								То	
Code	Year	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
	\$11.9	\$6.5	\$9.9	\$7.0	\$7.2	\$7.3	\$7.4	\$7.5		\$45.3
	Ţc	70.0	75.5	<b>V.10</b>	¥	<b>V</b> 110	¥	<b>Vv</b>		<b>4</b> 1010
										\$0.0
/	EET ACTIVITY  IENT, NAVY, BA	BET ACTIVITY  MENT, NAVY, BA2  le B Items:    ID	P-40 BET ACTIVITY MENT, NAVY, BA2 Be B Items:  ID Prior Code Year FY 2003	P-40 SET ACTIVITY MENT, NAVY, BA2 Set B Items:  ID Prior FY 2003 FY 2004	IENT, NAVY, BA2 le B Items:  ID Prior Code Year FY 2003 FY 2004 FY 2005	P-40  SET ACTIVITY  MENT, NAVY, BA2  Be B Items:  Other Related I  D Prior Code Year FY 2003 FY 2004 FY 2005 FY 2006	P-40  EET ACTIVITY  MENT, NAVY, BA2  The B Items:  P-1 ITEM NOMENCLATURE  General Purpose Electronic  Other Related Program Element  Description of the prior of	P-40  EET ACTIVITY  MENT, NAVY, BA2  The B Items:  Description:  Descrip	P-40  FEBRUARY 20  GET ACTIVITY  MENT, NAVY, BA2  TO BE I Items:  Description:  Descri	P-40  SET ACTIVITY  MENT, NAVY, BA2  Be B Items:  P-1 ITEM NOMENCLATURE  General Purpose Electronic Test Equipment GPETE)/2940  Other Related Program Elements  TO  Code  Year  FY 2003  FY 2004  FY 2005  FY 2006  FY 2007  FY 2008  FY 2009  Complete

This program provides for the initial procurement and distribution of General Purpose Electronic Test Equipment (GPETE). This equipment is essential to the operational readiness of the Navy for repair, installation, and maintenance (preventive and routine) of electronic systems and equipments, both afloat and ashore. The GPETE procured must meet rigid technical requirements, be cost effective and satisfy valid deficiencies in authorized allowance. FY04 funding includes funds placed in this account by N87 to pay for the replacement of Air Traffic Control and Landing Systems obsolete non-multifunctional Test, Measurement and Diagnostic Equipment (TMDE). This effort is scheduled to be completed during FY04.

P-1 SHOPPING LIST

CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 071 PAGE NO. 1

## **UNCLASSIFIED**

	WEAPONS SYSTEM COST P-5	ANALYS	IS		Weapon Sy	stem						DATE: FEBRUAR	RY 2004	
	PRIATION/BUDGET ACTIVITY rocurement, Navy, BA2				ID Code		OMENCLATUR Purpose Ele			ent (GPETE		<u>   EBIOAI</u>	(1 200 <del>1</del>	
COST	ELEMENT OF COST	ID		Prior Year			FY 2003			FY 2004		Ι	FY 2005	
CODE	ELLINEIVI OI GOGT	Code	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
			Quartity		70101 0001	Quartity			Quarterly			Quartity	<b>5</b> 5551	
	N091 TEST AND EVAL													
M6000	FIBER OPTICS AND DATA COMM	A												
M6001	SIGNAL GENERATORS & ANALYZERS	A	116	2.336	271	56	2.321	130	69	2.145	148	65	2.108	137
M6001			110	2.330	2/1	50	2.321	130	69	2.145	140	65	2.106	137
M6002	OSCILLSCPS, METERS & COUNTERS PROC ENGR AND DOCUMENTATION	A			30			14			16			15
WIGOOS	PROCEINGRAND DOCUMENTATION				30			14			10			I K
	N096 OCEANOGRAPHY													
M6000	FIBER OPTICS AND DATA COMM	Α												
M6001	SIGNAL GENERATORS & ANALYZERS	Α	343	2.076	712				28	17.357	486	24	18.250	438
M6002	OSCILLSCPS, METERS & COUNTERS	Α	20	5.700	114	24	17.542	421						
M6003	PROC ENGR AND DOCUMENTATION	А			92			47			54			49
	N61 SEW & C4													
M6000	FIBER OPTICS AND DATA COMM	Α	66	5.652	373	122	3.541	432	132	3.568	471	134	3.530	473
M6001	SIGNAL GENERATORS & ANALYZERS	Α	1,019	1.289	1,313	374	0.722	270	461	0.794	366	348	0.822	286
M6002	OSCILLSCPS, METERS & COUNTERS	Α												
M6003	PROC ENGR AND DOCUMENTATION	А			188			78			93			84
	N76- SURFACE WARFARE													
M6000	FIBER OPTICS AND DATA COMM	Α				75	3.733	280	41	3.537	145	37	3.541	131
M6001	SIGNAL GENERATORS & ANALYZERS	A	1,256	1.662	2,087	1,035	1.750	1,811	1,200	2.183	2,619	1104	1.860	2,053
M6002	OSCILLSCPS, METERS & COUNTERS	A	110	6.000	660	,,,,,,,	50	.,	,,200	230	2,0.0			_,,550
M6003	PROC ENGR AND DOCUMENTATION	A		3.330	305			232			307			243
	1 2446, JUN 86	<u> </u>	OPPING LIS		6,145			3,715			4,705 CLASSIFICA			3,909

P-1 SHOPPING LIST ITEM NO. 071

PAGE NO.

**UNCLASSIFIED** 

	WEAPONS SYSTEM COST P-5	ANALYS	IS		Weapon Sy	/stem						DATE: FEBRUAR	RY 2004	
	BUDGET ACTIVITY nent, Navy, BA2				ID Code		OMENCLATUR Purpose Ele			ent (GPETE				
	ELEMENT OF COST	ID		Prior Year	•		FY 2003			FY 2004			FY 2005	
		Code	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	Cont'd from P5 PG-1				6,145			3,715			4,705			3,909
	N77 -SUBMARINE WARFARE OPTICS AND DATA COMM	A	41	5.707	234	40	3.475	139	29	3.448	100	25	6,960	174
	GENERATORS & ANALYZERS	A	718	2.006	1,440		2.007	817	467	2.146	1,002	420	2,186	
LS	SCPS, METERS & COUNTERS	А	46	6.022	277									
Ε	ENGR AND DOCUMENTATION	А			217			106			122			121
	N78 AIR WARFARE													
RΑ	AFFIC CONTROL & LANDING SYS	А							284	7.035	1,998			
	GENERATORS & ANALYZERS	Α	1,502	1.750					91	17.637	1,605	85	19,988	1,699
	SCPS, METERS & COUNTERS ENGR AND DOCUMENTATION	A	96	6.042	580 356		18.590	1,543 172			400			189
					11,877			6.492			9.932			7,010
L	AFFIC CONTROL & LANDING SYS GENERATORS & ANALYZERS SCPS, METERS & COUNTERS	AAA	1,502 96 OPPING LIS	6.042	580	83	18.590	1,543 172				17.637 1,605 400	17.637 1,605 85	17.637

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3

## UNCLASSIFIED

<b>BUDGET PROCUREME</b>	NT HISTO	RY AND PLA	ANNING EXHIBIT (	P-5A)		Weapon Syst	em	A. DATE		
			`	•		' '			FEBRUAR	RY 2004
B. APPROPRIATION/BUDGET A Other Procurement, Na						MENCLATURE  pose Electror  nent (GPETE)/			SUBHEAD 82	M6
					CONTRACT			DATE OF	SPECS	DATE
Cost Element/	QUANTITY	UNIT	LOCATION	RFP ISSUE	METHOD	CONTRACTOR	AWARD	FIRST	AVAILABLE	REVISIONS
FISCAL YEAR		COST (000)	OF PCO	DATE	& TYPE	AND LOCATION	DATE	DELIVERY	NOW	AVAILABLE
FY-03										
M6000	237	SEE NOTE 1	SEAL BEACH	N/A	WX	SEAL BEACH	11/02	3/03	YES	
M6001	1,872	SEE NOTE 2	SEAL BEACH	N/A	WX	SEAL BEACH	11/02	3/03	YES	
M6002	107	SEE NOTE 3	SEAL BEACH	N/A	WX	SEAL BEACH	11/02	3/03	YES	
FY-04										
M6000	202	SEE NOTE 4	SEAL BEACH	N/A	WX	SEAL BEACH	11/03	3/04	YES	
M6000 (FY04 only)	284	SEE NOTE 5	EARLE	N/A	WX	EARLE	11/03	10/04	YES	
M6001	2,136	SEE NOTE 6	SEAL BEACH	N/A	WX	SEAL BEACH	11/03	3/04	YES	
M6002	N/A	-	-	-	-	-	-	-	-	
FY-05										
M6000	196	SEE NOTE 7	SEAL BEACH	N/A	WX	SEAL BEACH	11/04	3/05	YES	
M6001	2,046	SEE NOTE 8	SEAL BEACH	N/A	WX	SEAL BEACH	11/04	3/05	YES	
M6002	N/A	-	-	-	-	-	-	-	-	

### D. REMARKS

- NOTE 1: Unit costs are 3541/3733/3475 respectively for Resource Sponsors N61, N76, N77
- NOTE 2: Unit costs are 2321/722/1750/2007 respectively for Resource Sponsors N091, N61, N76, N77
- NOTE 3: Unit costs are 17,542/18,590 respectively for Resource Sponsors N096, N78
- NOTE 4: Unit costs are 3568/3537/3448 respectively for Resource Sponsors N61, N76, N77 FIBER OPTICS & DATA COMMUNICATORS
- NOTE 5: Unit cost is 7035 for Resource Sponsor N78 (FY04 only) AIR TRAFFIC CONTROL & LANDING SYSTEMS
- NOTE 6: Unit costs are 2145/17,357/794/2183/2146/17,637 respectively for Resource Sponsors N091, N096, N61, N76, N77, N78
- NOTE 7: Unit costs are 3530/3541/6960 respectively for Resource Sponsors N61, N76, N77
- NOTE 8: Unit costs are 2108/18,250/822/1860/2186/19,988 respectively for Resource Sponsors N091, N093, N61, N76, N77, N78

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST Classification:

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### **UNCLASSIFIED**

		BUDGE	T ITEM JUSTIFICATION S	HEET			DATE:				
			P-40				Februa	ary 2004			
APPROPRIATION/BU	JDGET ACTIVITY	1			P-1 ITEM NOM	MENCLATURE 1	INTEGRATED	COMBAT SYS	TEMS TEST		
OTHER PROCURE	MENT, NAVY E	3A-2: Com	munication and Electronic E	Equipment	FACILITY (ICS	TF)/DISTRIBU	TED ENGINEER	RING PLANT (D	EP) - 296000		
Program Element for 0	Code B Items:				Other Related	Program Eleme	nts				
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY											
COST											
(In Millions)	\$12.8		\$7.7	\$8.7	\$4.7	\$4.4	\$4.5	\$4.5	\$4.6	Cont.	\$39.1
SPARES COST											
(In Millions)	\$0.7		\$0.7	\$0.7	\$3.3	\$1.6	\$1.2	\$1.1	\$0.2	Cont.	\$8.8

#### PROGRAM DESCRIPTION/JUSTIFICATION

Naval Surface Warfare Center, Port Hueneme Division Detachment, San Diego (NSWC PHD DET SD) is a Navy owned and operated combat system integration test site and is located in San Diego, California at the SPAWAR Systems Center. NSWC PHD DET SD's mission is to perform certification testing of computer programs prior to delivery to the Fleet. CINCLANTFLT/CINCPACFLT Instruction 4720.3A (Fleet Response Plan (FRP)) stated that all platforms must be certified through Combat System Integration Testing (CSIT), which occurs for non-AEGIS platforms at this facility. NSWC PHD DET SD is the only permanent Navy facility responsible for fleet delivery readiness certification of CV/CVN, LHD and LPD-17 ship class combat system computer networks. NSWC PHD DET SD also provides combat system in-service engineering support for Fleet identified problems. NSWC PHD DET SD has been used efficiently to detect combat system computer program problems and enable their correction prior to delivery to the Fleet. This has significantly reduced the cost of corrective action and increased ship operation days. NSWC PHD DET SD is a key member of the Navy's Distributed Engineering Plant (DEP) Alliance, which performs Strike Force Interoperability Testing (SFIT) and Collaborative System Testing (CST) for Strike Groups.

As existing COTS combat subsystems are continuously Technically Refreshed and/or Technical Insertion is .performed, and/or new COTS subsystems are introduced into the Fleet, NSWC PHD DET SD must develop the test beds that functionally represent these combat systems to support the conduct of CSIT of the lead ship of the class as part of the Fleet Response Plan (FRP). NSWC PHD DET SD must also develop the test beds to support CSIT for new ships/ship classes (CVX class, LPD-21 class, LHD-8 and LHA-R) that are introduced into the Fleet with new combat subsystems.

The basic procurement program outlined herein is directed at expanding NSWC PHD DET SD's capability to support CSIT. Procurement requirements are directly tied to the CSIT testing schedule. Procurements are required to build the necessary test beds and for laboratory support equipment. The laboratory support equipment, requires frequent upgrades in order to support the new tactical subsystems that use COTS equipment. FY 2004 funding is available to replace a main component of lab support equipment, the High Speed Digital Switch (HSDS), representing 20+ year old technology, with the Digital Tactical Switching System (DTSS) to ensure NSWC PHD DET SD's ability to provide uninterupted support of testing requirements.

In addition, the basic program provides for equipment/upgrades for the Navy's Distributed Engineering Plant (DEP) needed to conduct Strike Force Interoperability Testing SFIT). The DEP consists of 13 land based sites networked to certify computer programs prior to their delivery to the Fleet. SFIT is required for all deploying Strike Groups per the Joint Fleet instruction.

All procurements will be received and installed by NSWC PHD DET SD. Major equipment is procured from Raytheon in San Diego, CA, CCT in Anaheim, CA and DRS Technologies, which is located in Johnstown, PA. Installations are based on CSIT and SFIT schedules.

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40 CONTINUATION		February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	37288 INTEGRATED COMBAT SYSTEMS
OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	TEST FACILITY(ICSTF)/DISTI	RIBUTED ENGINEERING PLANTS (DEP) - 296000
The Shipboard Electronics Systems Evaluation Facilities (SESEF) are Navy-owned and operated test rang currently in the Fleet (i.e., AIMS MK XII IFF (all modes)), TACAN, conventional radars (both search and fi ship Captains and Type Commanders the capability of measuring and testing a ship's condition of mate operations and prior to deployment.  Consistent with the CNO's approval for modernization of SESEFs, OPN funds have been provided to proc WA., Pearl Harbor, HI., Yokosuka, Japan, and Mayport, FL. This equipment will provide two party capabilities etc.) and perform antenna radiation pattern measurements.	es capable of action as the partire control), communication systematical readiness at the completion	ner in two party operational performance testing of systems ems secure voice and LINK 11/4A). The SESEF provides on of construction, industrial availability, during routine ship apabilities for Ft. Story, VA., San Diego, CA., Puget Sound,

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**UNCLASSIFIED** 

CLASSIFICATION:

# CLASSIFICATION: UNCLASSIFIED

	WEAPONS SYS		T ANALYS	SIS			Weapon	System					D	ATE:	
40000		P-5					ID O · · I	D 4 ITEM 1	01451101.4511	DE (01 ID)	- A D			Februa	ary 2004
	PRIATION/BUDGET ACTIVITY Procurement, Navy						ID Code		OMENCLATU  d Combat S			ility /ICST	E\		
	COMMUNICATION AND ELECTR	ONIC FO	IIIDMENI	г				_	ed Enginee	-			Γ)		
DA-2. C		CONTO EQ			IOUSANDS (	OF DOLLARS	<u> </u>	Distribut	eu Enginee	illig i la	iita (DEI	7 - 230000			
СОСТ	ELEMENT OF COOT	I.D.	Deine	1			1	EV 0000		1	EV 0004			/ 000F	
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2003			FY 2004	•	F 1	/ 2005	
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity U	nit Cost	Total Cost
	SURFACE SHIPS (N76)														
M8100	COMBAT SYSTEM EQUIPMENT	Α							6,230			2,236			3,074
	CV/CVN Test Bed								615			2,236			1,010
	LPD-17 to 20 Test Bed								2,195			0			0
	LHD Test Bed														839
	LPD-21 Test Bed														56
	Legacy Ships Test Bed								100						
	Test Bed Displays								3,320						1,169
	BF Capability Upgrades														
M8200	SUPPORT EQUIPMENT	Α							537			5,153			46
	Test Tools (4L42 SEATASK)								50			0			46
	DTSS (64X64) Matrix								350			4,333			
	Simulation								37			775			
	Lab Upgrade								100			45			
M8300	CS Simulation	Α													
M8400	SESEF Elect. Equip	Α							785			742			780
M8500	DEP Equipment	А										250			250
M861N	Equipment Installation	А							136			280			512
	1 2446 II IN 86								7,688			8,661	CLASSIFICA		4,662

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### **UNCLASSIFIED**

		В	SUDGET ITE	M JUSTIFIC <i>i</i>	ATION SHEE	T			DATE:			
				P-40						Februa	ry 2004	
APPROPRIATION/BUD	GET ACTIVIT	Υ					P-1 ITEM NOM	IENCLATURE				
OTHER PROCURE	MENT, NA	/Y BA-	2 COMMUNI	CATIONS A	ND ELECTRO	ONICS EQUI	F EN	III CONTROL	. INSTRUME	NTATION LI	: 297000 82N	ΛA
Program Element for Co	de B Items:						Other Related I	Program Eleme	nts			
	FY 2002	ID									То	
	and Prior	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		Complete	Total
OLIANITITY (												
QUANTITY												
COST												
(In Millions)	\$56.3		\$5.2	\$6.4	\$5.9	\$6.0	\$6.1	\$6.2	\$6.3			\$42.1
SPARES COST												
(In Millions)												

Funds will be used to procure emergency field change kits, hardware devices and sensor kits to solve Electromagnetic Interference (EMI) problems in electronic systems/equipments throughout the surface ship Navy. The fixes which include various types of filters, limiters, blankers and shielding will be installed by fleet support and maintenance personnel to eliminate EMI where it is causing unacceptable degradation in the operational performance of mission-essential systems. EMI Control Instrumentation will be procured for use in identifying the sources of EMI and determining the extent of EMI so that effective corrective measures can be applied. Better definition of the problems will also provide data which will be used by designers to reduce EMI problems in future systems and equipments. The instrumentation procured will include automated and special EMI test equipment (e.g. spectrum analysis, field intensity meters, AN/PSM-40 series test sets, etc.). Instrumentation, hardware and software will also be procured to upgrade the Frequency Assignment Computer Terminal Systems (FACTS) and to provide remote access capability to the Communications Area Master Station (CAMS) and other high-density users.

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	WEAPONS SYSTEM C P-5	OST AN	ALYSIS			Weapon Sy	stem							DATE: <b>Februa</b> i	rv 2004
Other Pi	RIATION/BUDGET ACTIVITY rocurement, Navy mmunications and Electronic Equip	ment				ID Code		OMENCLATU			LI: 297000	82MA			, ====
	1		TOTAL COS	T IN THOUS	ANDS OF DOI		l -		-			-			
COST CODE	ELEMENT OF COST	ID Code	FY 2002 and Prior		FY 2003	1		FY 2004			FY 2005	1		FY	
	ELECTRONICS SUPPORT (OP-N6)		Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
MA001	EMERG FIELD CHANGE KITS	А	10,120			0			0			0			
MA004	EMI FIXES & SENSOR KITS	А	27,694			3,722			4,643			4,094			
MA104	EMI CONTROL INSTRUMENTATION	А	17,401			1,365			1,623			1,628			
MA107	FACTS INSTRUMENTATION	А	1,063			155			155			150			
DD 505:	2446 IIIN 96		56,278		D 1 SHODDIN	5,242			6,421			5,872			0

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION TO THE PROPERTY OF THE P

		BUDGE	T ITEM JUS	TIFICATION	SHEET			DATE:			
			P-	40					February 2004		
APPROPRIATION/BUI	DGET ACTIVIT	Υ				P-1 ITEM NOM	ENCLATURE				
OTHER PROCURE	EMENT, NA	/Y/BA-2						Items unde	er \$5M (298000)		
Program Element for C	ode B Items:					Other Related I	Program Elemer	nts			
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY2008	FY2009	Complete	Total
QUANTITY											
COST		1									
(In Millions)			\$12.1	\$15.3	\$12.1	\$5.7	\$5.1	\$5.2	\$5.0		\$60.5
SPARES COST											
(In Millions)											\$0.0

### THIS IS A CONSOLIDATED OPN BUDGET FOR THE FOLLOWING ITEMS:

### **ADVANCED SENSOR DISTRIBUTION SYSTEM (ASDS)**

ASDS is a radar distribution system which converts naval surface and air search radar information into a standard digital format, which distributes this data to radar navigation and tactical displays throughout the platform. The ASDS SB-4229A(V)/SP radar signal distribution switchboard is designed for fast, effective switching of all naval radar video, IFF and MIL-STD-751 digital data to all combat system display consoles throughout the platform. The ASDS CV-3989(V)/SP dual signal data converter accepts standard radar positional interfaces and receives inputs from shipboard navigational sensors. The AN/SPA-25G provides for improvements which will increase operational capability, accuracy and reliability.

### SHORE ELECTRONIC ITEMS (TECR):

The Tactical Embedded Computer Resources (TECR) reutilization program - refurbishes, reconfigures and tests TECR assets made available through decommissionings and other downsizing efforts and provides these assets to satisfy current tactical systems requirements. TECR depot and diminishing manufacturing resources capability - includes procurement of test equipment and potentially obsolete parts to maintain both organic and original equipment manufacturer depots for out-of-production equipment which will remain in the fleet well past FY 2010. Additional funds were provided in FY 99 to upgrade and test the display consoles and associated equipment on older U. S. navy ships and test sites, replacing them with emulators, AN/UYQ-70 displays and associated peripheral equipment. These displays and associated equipment would be tested to assess improvements in the man/system interfaces which control the command/control/weapons/combat systems required for the mission of these Navy surface combatants.

### **COMPUTER AIDED DEAD RECKONING TRACER (CADRT)**

Provides automated family of plotter/tracer replacements to display navigation and all warfare tactical plots which can overlay on digital nautical charts with complete connectivity.

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BUDGET ITEM JUSTIFICATION SHEET	DATE:
P-40	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE
OTHER PROCUREMENT, NAVY	Items under \$5M (298000)

### **CALIBRATION STANDARDS:**

These funds procure calibration equipment for intermediate and organizational maintenance levels. Test And Monitoring Systems (TAMS), which include test equipment and gauges, must be calibrated to ensure the equipment is operational, accurate and precise. Funds are used to procure Calibration Standards. Calibration Standards are equipments which ensure the accuracy of test equipment used to install, align, and maintain all navy weapons systems shore and afloat. IMA mechanical standards programs provide various new and replacement calibration equipment for instrument repair and calibration shops aboard tenders and shore based intermediate maintenance activities. The shipboard gage calibration program provides the organization maintenance level aboard ship with portable calibration equipment to provide calibration support in only specific areas of measurement. Integrated Condition Assessment System (ICAS) is an NDI (cots equipment) computer based system that provides real-time, on-line machinery condition monitoring and failure detection, diagnosis, trending for failure prognosis and expert troubleshooting capability. ICAS is linked through data networks to other critical ship systems, such as machinery control, damage control and bridge systems to receive necessary sensory information.

#### **NAVY SIGNAL PROCESSORS:**

Procures support and materials incident to safety and reliability modifications for AN/UYS-2A equipment; procurement of COTS hardware to support modernization/replacement of AN/UYS-2A equipment; procurement/direct support costs to support modernization activities.

#### RADAR SUPPORT:

AN/SPS-73(V) radar - provides replacement radar for AN/SPS-64 radar on all ship classes and replacement for AN/SPS-55 radar on various class ships

#### IN SERVICE RADARS:

This program addresses TMA/TMI issues raised by the fleet for the AN/SPS-48E 3D air search radar and the AN/SPS-49(V) 2D air search radar. Funding for the AN/SPS-48 radar will procure a course re-write to address field changes made to the radar and not taught as part of the training curriculum which is required in order to help maintenance technicians who have difficulty in diagnosing faults. Funding will also be used to procure a significant upgrade of the receiver cabinet. Funding for the AN/SPS-49 radar will procure solid state modulator field change kits. This modulator will replace the current modulator which has a high failure rate and utilizes outdated glass tube technology manufactured by a single off-shore vendor.

RADAR AUGMENTATION FOR PERISCOPE IDENTIFICATION (RAPID): This radar improves an existing search radar to provide periscope detection & discrimination while conducting surface search functions, such as navigation and piloting, surface target detection (masts, buoys, boats, floating mines). The concept is to field a new capability without having to procure and qualify a new radar.

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CLASSIFICATION:

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### CLASSIFICATION:

CLASSIFIC												
	WEAPONS SYSTEM COST ANAL	YSIS									DATE:	
ADDDOD	P-5 RIATION/BUDGET ACTIVITY			D 4 ITEM N	OMENCLATU	DE/CUDUEAE					February 200	)4
	rocurement, Navy			P-1 II EM N	OMENCLATO	KE/SUBHEAL	,					
	,,					ITEMS U	NDER \$5M	(298000)				
			TOTAL COS	T IN THOUS	ANDS OF DO							
COST	ELEMENT OF COST	ID	Prior	l	FY 2003		l	FY 2004		1	FY200	)5
CODE		Code	Years	0 "			0 "		1	0 17		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
DC001	RADAR SUPPORT- N76			16	140	2,240	19	146	2,774			
DC002	SHORE ELECTRONICS - TECR - N6		1,803			904			575			656
DC003	NAVY SIGNAL PROCESSORS - N61		1,262						325			355
DC004	CALIBRATION STANDARDS - N4		1,594			1,489			1,564			1,559
DC006	ASDS-N76		,	15	151	2,263	13	218	2,820	10	153	1,530
DC007	TC-RCI-AN/BPS 15/16-N77					169		-	,,==			,,,,,
DC008	ICAS		2,600									
DC009	IN SERVICE RADARS (AN/SPS-48)- N76		,						1,716	25	65	2,498
DC010	IN SERVICE RADARS(AN/SPS-49)- N76								3,287	14	100	1,400
DC011	Q-70 CADRT-N76					3,400						
DC012	PERISCOPE DETECTION RADAR - N76											
DCINS	EQUIPMENT INSTALLATION- N76		111			1,622			2,244			4,060
						,-			,			,
										<del>                                     </del>		
						12,087			15,305	i		12,05

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### CLASSIFICATION:

		Weapon System	ľ	A. DATE: Fo	ebruary 2004	
	Items Und	I IOMENCLATURE er \$5 <b>M</b>			SUBHEAD	82DC
ATION REP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
nington		Raytheon				
y Yard	MIPR		Jan 03	Sep 03	YES	
nington y Yard	MIPR	Frontier Stillwater OK	Nov 02	May 03	YES	
nington y Yard	MIPR	Raytheon Sudberry MA.	Jan 04	Apr 04	YES	
nington y Yard	MIPR	Frontier Stillwater OK	Nov 03	May 04	YES	
		- ·				
nington y Yard	MIPR	Frontier Stillwater OK	Nov 04	May 05	YES	
nington y Yard	MIPR	ITT Gilfillan VanNuys CA	Jan 05	Jan 06	YES	
nington y Yard	MIPR	Raytheon Sudberry MA	Jan 05	Jan 06	YES	

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0.000...000.

CLASSIFICATION: UNCLASSIFIED																						
P3A		INDIVIDUA	L MO	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	Items	Under \$5M (	29800	0)	TYP	E MODIF	FICAT	ION:	N/A			_			MOE	IFICATION	IT NC	ITLE:	AN/S	SPS-73(V) I	RADAR (N7	6)
DESCRIPTION/JUSTIFICATION:																						
PROVIDE REPLACEMENT RADARS FOR	R LN-6	66, AN/SPS-	64(V)	, AND A	N/SP	S-55.																
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILEST	ONES	S:								=										
	FY 2	002 & Prior	<u>F</u>	2003		<u>/ 2004</u>		<u> 2005</u>		2006	<u>F</u>	<u> 2007</u>	<u>F`</u>	2008	<u>F</u>	2009				<u>TC</u>		<u>TAL</u>
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$ 	QTY	\$	QTY	\$	1		QTY	\$	QTY	<b>\$</b>
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	10	0.4	16	2.2	0																26	2.60
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER (Production Engineering)																						
OTHER (Consulting Services)																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	10	0.4	16	0.9	5	0.90															31	2.20
TOTAL PROCUREMENT		0.8		3.1		0.90																4.80

## **UNCLASSIFIED**

CLASSIFICATION:

CLASSIFICATION:																													
P3A (Continued)																													
MODELS OF SYSTE	MS AFFE	CTED:				MOI	DIFICA	ATION TIT	LE:		AN/S	SPS-73	8(V) F	RADA	R (N7	'6)								_					
INSTALLATION INFO			т																										
ADMINISTRATIVE LE						PRODUC	TION			_		9	Mont																
CONTRACT DATES: DELIVERY DATE:		2002: 2002:			_	FY 2003: FY 2003:			an 03 ep 03						FY 20		_		Jan 04 Sep 0		_	FY20			Jan-0 Sep (				
DELIVERT DATE.	Fĭ	2002.			_	F1 2003.			p 03						F1 20	004.			sep u	4	_	FTZ	005.		Sept	Jo	<del></del>		
													\$ in N																
Cost:		Y2002	& Prior `	Years	Qty	FY 2003	Qty	FY 2004		Qty	Y 200		F' Qty	Y 200		Qty	Y 2007 \$		FY Qtv	′ 2008 \$	Qtv	FY 200					Qty	Qty	Total \$
	Qty		- Þ		Qıy	Þ	Qly	\$		Qly	•	•	Qty	- 1	Þ	Qty	Ф		Qly	Ф	Qıy		\$	+			Qiy	Qiy	Ф
PRIOR YEARS																													
FY 2002 EQUIPMEN	IT 1	0 <b>0</b> 0.4	1																		-							10	0.40
FY 2003 EQUIPMEN	IT				16	0.90	)																					16	0.90
FY 2004 EQUIPMEN	ΙΤ						19		0.90																			19	0.90
FY 2005 EQUIPMEN	IT																												
FY 2006 EQUIPMEN	IT																												
FY 2007 EQUIPMEN	IT																												
FY 2008 EQUIPMEN	IT																												
FY 2009 EQUIPMEN	IT																												
TO COMPLETE																													
INSTALLATION SO	CHEDULE	:					_																						
FY 200	2	FY	2003		<u>F</u>	Y 2004		FY 20	<u> 2005</u>			FY 20	006			FY	2007			FY 2008	<u> </u>		FY	2009	9			TC	
& Prio	or 1	2	3	4	1 2		1		3	4	1	2	3	4	1	2	3 4	1	1	2 3		1	2	3	4				TOTAL
In 10	0			8	0 0		0		0	0	0	0	0	0	0	0			0	0 0		0	0	0	0				
Out 10	0	0	8	8	0 0	10 9	0	0	0	0	0	0	0	0	0	0	0 (	)	0	0 0	0	0	0	0	0	_]		ШШ	
																							P-3/	^					
*SPS/73 radars are	funded in	BLI 2	04000			ITE	M NO.	74		PA	GE	6								CL	ASSIFI	CATIC		٦.					

CLASSIFICATION:																						
P3A		INDIVIDUA	AL MOI	DIFICAT	ION																	
MODELS OF SYSTEM AFFECTED:	RADDS	SYSTEMS			TYPE	MODIF	ICATI	ION:	N/A						MOD	IFICATI	ON TI	TLE:	ASDS	3		
DESCRIPTION/JUSTIFICATION:																						
ASDS IS A RADAR DISTRIBUTION SYST RADAR NAVIGATION ANDTACTICAL DIS								SEARC	H RAD	AR INF	ORMA	TION IN	ITO A	STANDA	ARD D	IGITAL I	FORM	IAT, WH	ICH D	ISTRIBUT	ES THIS DA	ATA TO
L DEVELOPMENT STATUS/MAJOR DEVEL	OPMEN	IT MILESTO	ONES:																			
	FY 200 QTY	02 & Prior \$		<u>2003</u>	<u>FY</u> QTY	<u>′ 2004</u> \$	<u>FY</u> QTY	<u>2005</u>	<u>FY</u> QTY	2006 \$	<u>FY</u> QTY	<u>2007</u>	<u>FY</u> QTY	<u>2008</u>		<u>′ 2009</u> \$		FY2010		TC \$	TO <sup>-</sup> QTY	<u>ΓΑL</u> \$
FINANCIAL PLAN (IN MILLIONS)		·						·		·				·								·
RDT&E																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			15	2.3	13	2.82	10	1.530													38	6.7
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER (Production Engineering)																						
OTHER (Consulting Services)																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	AP	0.1	10.0	0.7	13.0	1.3	15.0	2.3													38.0	4.4
TOTAL PROCUREMENT		0.1		3.0		4.1		3.8 ITEM NO.			PAGE	-								SSIFICATION		11.1

ITEM NO. 74

CLASSIFICATION:																												
P3A (Continued)																												
MODELS OF SYSTEMS	AFFEC	TED:		MOI	DIFICA	ATION T	TITLE:		ASE	os													_					
INSTALLATION INFORM																												
ADMINISTRATIVE LEAD		··· <u></u>		PRODUC	TION	LEADT	IME:			6	Mon	iths																
CONTRACT DATES:	FY 2	2002:		FY 2003:			Nov-02	2					FY 2	004:			Nov (	03			FY2	2005:		Nov-	04			
DELIVERY DATE:	FY 2	2002:		FY 2003:			May 03						FY 2	2004:			May	04		-	FY2	2005:	_	May-	05			
_			1		1							Millio																
Cost:	FY2 Qtv	2002 & Prior Years \$	Qtv	FY 2003	Qty	FY 20	) <u>4                                    </u>	Qtv	Y 200		Qty	Y 200		Qty	FY 200		Qtv	Y 200	<u>8</u> \$	Qty	FY 200	)9 \$	Qty	1		\$	Qtv	Total \$
	Qly	φ	Qty	\$	Qty		Ф	Qly	<u> </u>	\$	Qıy	\$		Qly	\$	1	Qly	,	<u>ф</u>	Qly		Φ	Qty			<u> </u>	Qiy	Ф
PRIOR YEARS		0.1	ı																									0.1
FY 2002 EQUIPMENT																												
FY 2003 EQUIPMENT			10	0.7	5	0.6																					15	1.3
FY 2004 EQUIPMENT					8	0.7		5	0.5																		13	1.2
FY 2005 EQUIPMENT								10	1.8																		10	1.8
FY 2006 EQUIPMENT																												
FY 2007 EQUIPMENT																												
FY 2008 EQUIPMENT																												
FY 2009 EQUIPMENT																												
TO COMPLETE																												
INSTALLATION SCH	EDULE:																											
FY 2002	<u>I</u>	FY 2003	<u>F</u>	Y 2004		FY	2005			FY 2	2006			FY	2007			FY 2	2008			<u> </u>	Y 200	<u> </u>			TC	
& Prior	1	2 3 4	1 2		1	2	3	4	1	2	3	4	1	2	3	4	1	2			1 -	2	3	4			$\dashv$ $lacktriangle$	TOTAL
In	0	0 0 10	3 2		3	2	5	5		0	0	0	0	0	0	0	0	0	-	0 0		0	-	0				38
Out	0	0 0 10	3 2	2 4 4	3	2	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			_	38
																						P-3.	^					
				ITC	M NO	7/		D	AGF	8									CLA	COIEI	CATIO		_					

CLASSIFICATION:				A INDIVIDUAL MODIFICATION																		
P3A		INDIVIDUA	L MO	DIFICA	TION																	
MODELS OF SYSTEM AFFECTED:	Items	Under \$5M (	29800	0)	TYPI	E MODIF	ICAT	ION:	N/A						MOD	IFICATI	ON TI	ITLE:	IN S	ERVICE R	ADARS (AN	/SPS-48)
DESCRIPTION/JUSTIFICATION:																						
PROGRAM ADDRESS TMA/TMI ISSUES	RAISE	D BY THE	FLEE	T FOR	THE A	N/SPS-4	8E 3D	AIR SE	ARCH	RADAR												
DEVELOPMENT STATUS/MAJOR DEVEL	OPME	NT MILEST	ONES	3:																		
	FY 20	002 & Prior	<u>F</u>	<u>/ 2003</u>	<u>F)</u>	2004	<u>F</u>	2005	<u>FY</u>	2006	FY	2007	F	Y 2008	FY	2009	<u>F`</u>	Y2010		<u>TC</u>	<u>TO</u>	TAL_
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<u>RDT&amp;E</u>																						
<u>PROCUREMENT</u>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							25	1.625													25	1.63
EQUIPMENT NONRECURRING						1.121		0.479						0.030								1.63
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER (Production Engineering)																						
OTHER (Consulting Services)																						
OTHER (TRAINING)						0.6		0.4														0.99
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST									4	0.080	11	0.220	10	0.200							25	0.50
TOTAL PROCUREMENT						1.7		2.5 ITEM NO.		0.1	AGE	0.2		0.2						SSIFICATI		4.75

CLASSIFICATION	ON:																											
P3A (Continued	d)																											
MODELS OF S	YSTEMS	AFFECT	ΓED: _			МО	DIFIC	ATION	TITLE:		IN S	ERVICE R	ADAR	1A) 2	N/SPS	48E 3	BD)							_				
INSTALLATION METHOD OF IN			N: AIT																									
ADMINISTRATI				_		PRODUC		LEAD	TIME:			12 Months	S			_												
CONTRACT DA		FY 20				FY 2003:										004:	_				_	FY 20			Jan-05			
DELIVERY DAT	IE:	FY 20	002:			FY 2003:									FY 2	2004:	_				-	FY 20	)05:		Jan-06			
												(\$ ir	n Millio	ns)														
Cost:			02 & Prior Ye			/ 2003		FY 20			FY	2005	F	Y 20	005		FY 200			Y 2007		FY 2008			2009			
		Qty	\$		Qty	\$	Qty		\$	Qty		\$	Qty		\$	Qty	\$		Qty	\$	Qty	,	\$	Qty		\$		\$
PRIOR YEARS	S																											
FY 2002 EQUI	IPMENT																											
FY 2003 EQUI	IPMENT																											
FY 2004 EQUI	IPMENT																											
FY 2005 EQUI	IPMENT																											
FY 2006 EQUI	IPMENT															4		0.08										
FY 2007 EQUI	IPMENT																		11	0.22	2							
FY 2008 EQUI	IPMENT																				10	0.20	)					
FY 2009 EQUI	IPMENT																											
TO COMPLET	ΓE																									2	25	0.50
INSTALLATION	ION SCHE	DULE:		_																								
F	Y 2002	<u> </u>	Y 2003		FY 2	2004		<u>FY</u>	2005			FY 20	<u>06</u>			<u>F`</u>	Y 2007			FY 2008			FY	2009		<u>TC</u>	<u> </u>	
<u> </u>	& Prior	1	2 3 4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	ıЩ	TC	DTAL
In		0	0 0 0	0 0	0 0	0 0	0	0	0	0	0	2	1	1	3	3	3	2	3	1 5	1	0	0	0	0			25
Out		0	0 0 0	) (	0 0	0 0	0	0	0	0	0	2	1	1	3	3	3	2	3	1 5	1	0	0	0	0	ıЩ	_	25
																							P-3/	A				
						ITE	M NO	74		P	AGE	10								CL AS	SIFICA	TION:						

DESCRIPTION/JUSTIFICATION:    PROGRAM ADDRESS TMA/TMI ISSUES RAISED BY THE FLEET FOR THE AN/SPS-49(V)2D AIR SEARCH RADAR.    DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:    FY 2002 & Prior   FY 2003   FY 2004   FY 2005   FY 2006   FY 2007   FY 2008   FY 2009   FY 2010   TO QTY \$ QTY	CE RADARS (AN/	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:    FY 2002 & Prior   FY 2003   GY 2004   GY 2005   GY 2006   GY 2007   GY 2008   GY 2009   GY 2010   GY 201	TOT	TAL
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:    FY 2002 & Prior   FY 2003   FY 2004   FY 2005   FY 2006   FY 2007   FY 2008   FY 2009   FY 2010   TI		
FY 2002 & Prior   FY 2003   Prior   FY 2003   Prior   PY 2004   PY 2005   PY 2006   PY 2006   PY 2007   PY 2008   PY 2008   PY 2009   PY 2010		
FY 2002 & Prior   FY 2003   Prior   FY 2003   Prior   PY 2004   PY 2005   PY 2006   PY 2006   PY 2007   PY 2008   PY 2008   PY 2009   PY 2010		
FY 2002 & Prior   FY 2003   Prior   FY 2003   Prior		
Composition   Composition		
Composition   Composition		
RDT&E         Instrallation kits         Instrallation kits - unit cost         Instrallation kits nonrecurring         Instr		
PROCUREMENT         INSTALLATION KITS         INSTALLATION KITS         INSTALLATION KITS - UNIT COST         INSTALLATION KITS NONRECURRING         INSTA		
PROCUREMENT         INSTALLATION KITS         INSTALLATION KITS         INSTALLATION KITS - UNIT COST         INSTALLATION KITS NONRECURRING         INSTA		
INSTALLATION KITS	+	
INSTALLATION KITS - UNIT COST         INSTALLATION KITS NONRECURRING         INSTALLA		
INSTALLATION KITS NONRECURRING         INSTALL		
EQUIPMENT         14         1.4         1.5         1.5         14         1.5         1.5         14         1.4         1.5         1.5         14         1.4         1.5         1.5         14         1.4         1.4         1.5         1.5         14         1.4         1.4         1.4         1.5         1.5         14         1.4         1.4         1.5         1.5         14         1.4         1.4         1.5         1.5         14         1.4         1.4         1.4         1.5         1.5         14         1.4         1.4         1.5         1.5         14         1.4         1.4         1.5         1.4         1.4         1.5         1.4         1.4         1.5         1.4         1.4         1.4         1.4         1.5         1.4         1.4         1.4         1.4         1.4         1.5         1.4		
EQUIPMENT NONRECURRING ENGINEERING CHANGE ORDERS DATA		
ENGINEERING CHANGE ORDERS  DATA  DATA	72	7.20
DATA		
TRAINING EQUIPMENT		
SUPPORT EQUIPMENT		
OTHER (Production Engineering) 3.287		3.29
OTHER (Consulting Services)		
OTHER (TRAINING)		
INTERIM CONTRACTOR SUPPORT		
INSTALL COST 16 0.27 14 0.24 15 0.26 18 0.31 9	1	1.07
TOTAL PROCUREMENT         3.29         1.40         1.77         1.64         1.76         1.71         CLASSIF	72	11.56

CLASSIFICATION:																												
P3A (Continued)																												
MODELS OF SYSTEMS	AFFEC	CTED:		MC	ODIFIC	CATION TIT	LE:	<u>II</u>	N SERV	ICE RA	ADAR (A	AN/SPS	S-49(\	/) 2D)							-							
INSTALLATION INFORM																												
ADMINISTRATIVE LEAD	TIME:			PRODU	CTION	N LEADTIM	E:			12 N	1onths		_															
CONTRACT DATES:		2002:		FY 2003								Y 2004								FY 2005:		Jan-05			_			
DELIVERY DATE:	FY	2002:		FY 2003	3:						F	Y 2004	4:	_						FY 2005:		Jan-06			_			
											(\$ in N	/lillions)	)															
Cost:	FY2	002 & Prior Yea	rs	FY 2003		FY 2004		FY:	2005		FY 200			FY 2007		F	Y 2008		F	Y 2009								Total
	Qty	\$	C	Qty \$	Qty	y \$	Q:	ty	\$	Qty	\$	;	Qty	\$		Qty	\$	(	Qty	\$			Qty	'			Qty	\$
PRIOR YEARS																												
FY 2002 EQUIPMENT																												
FY 2003 EQUIPMENT																												
FY 2004 EQUIPMENT																												
FY 2005 EQUIPMENT										14		0.238															14	0.27
FY 2006 EQUIPMENT										2		0.034	13	0.	.221												15	0.26
FY 2007 EQUIPMENT													1	0.	.017	13	0	.221									14	0.26
FY 2008 EQUIPMENT																2	0	.034 1	3	0.221							15	0.25
FY 2009 EQUIPMENT																			5	0.085							5	0.05
TO COMPLETE																												
INSTALLATION SCHE	EDULE:																											
FY 2002		FY 2003		FY 2004		FY 20	005		FY	2006			FY 2	2007			FY 20	08		FY	2009			FY	2010		TC	
& Prior	1	2 3 4	1	2 3 4	1	2	3	4	1 2	3	4	1	2	3	4	1	2	3 4	4	1 2	3	4	1		2 3	4		TOTAL
In	0	0 0 0	0	0 0 0	0	0	0	0	5	5	6	4	4	4	2	3	4	4 4	4	5 5	5	3	3	:	3 3			72
Out	0	0 0 0	0	0 0 0	0	0	0	0	5	5	6	4	4	4	2	3	4	4 4	4	5 5	5	3	3		3 3			72
								540	- 10											P-3A								
				I I	ГЕМ NO	. 74		PAGI	E 12								C	LASS	IFIC/	ATION:								

#### CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHE	ET				DATE				Februar	y 2004
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & EI		IPMENT		P-1 ITEM NOM BLI: 3010 SHIF		MMUNICATIONS		1	1	SUBHEAD 52DN	
			FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY											
COST (in millions)				\$40.0	\$14.1	\$5.9	\$5.2	\$102.9	\$137.2		

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS: Beginning in FY04, HFRG, HF Tilt Mechanisms and Joint Tactical Radios System will transfer from BLI 3057 Comm Items Under \$5M and BLI 3215 Satellite Communications respectively to BLI 3010 Ship Tactical Communications.

HF TILT MECHANISMS - Devices to enable vertical whip antenna to be lowered to a horizontal position during flight operations.

HIGH FREQUENCY RADIO GROUP (HFRG) BROADBAND - Will allow fully automated operation of the HF communications system. The system will reduce the number of topside antennas used, reduce electromagnetic interference and reduce manning requirements.

JTRS: The Joint Tactical Radio System-Maritime and Fixed Station (JTRS-M/F) provides tactical Joint interoperable communications. JTRS-M/F replaces all non-compliant, mostly 1970's design radios and multiplexers, with a software programmable radio that can meet present and future requirements in a cost effective and forward thinking manner. JTRS-M/F initial baseline provides the framework for meeting the planned future SATCOM, Line of Sight (LOS) and Beyond LOS communications requirements in the 2 MHz to 2 GHz spectrum. Additionally, JTRS-M/F provides advanced higher data rate and capacity waveforms in the UHF spectrum critical to supporting the Navy IT-21 Network Centric strategy and Joint Vision 2010 and provides the radio for incorporation of the developing Advanced Narrowband System (ANS) waveform, the next generation UHF follow-on satellite constellation. The Maritime and Fixed Station JTRS (JTRS-M/F) will be evolutionary in development. FY03 and prior is implemented under the Digital Modular Radio (DMR) Program as JTRS-M/F Block 0. JTRS-M/F Block I will consist of a modification of the DMR to JTRS software compliance and will meet narrowband requirements of the Navy tactical communications. JTRS-M/F Block II will be a newly developed radio system that will meet both narrowband and wideband requirements in the 2 MHz to 2 GHz frequency spectrum. The new system will replace a multitude of systems (HFRG, DWTS, UHF SATCOM, etc.). NOTE: In November 2003, USD (ATL) directed the merge of Clusters 3 &4 (Navy & Air Force) to establish a combined JTRS Cluster, to be renamed AMF JTRS, Airborne Maritime/Fixed JTRS. Funding represents Navy's portion of AMF JTRS.

DMR: The Digital Modular Radio (DMR) provides improvements for fleet radio requirements in the HF, VHF, and UHF frequency band. The DMR replaces and will be interoperable and backwards compatible with legacy systems. The DMR is a digital, modular, software programmable, multi-channel, multi-channel, multi-band (2MHz-2 GHz) radio system.

UNCLASSIFIED CLASSIFICATION											
	COST ANALYSIS						DATE			Febru	ary 2004
APPROPRIATION OP,N - BA-2 COMI	ACTIVITY MUNICATIONS AND ELECTRONIC EQUIPMENT			<b>P-1 ITEM I</b> BLI: 3010 S	NOMENCLA SHIP TACTIC		JNICATION		SUBHEA 52DN	\D	
				EV 2002			EV 2004		1	EV 200	-
COST		ID		FY 2003 UNIT	TOTAL		FY 2004 UNIT	TOTAL		FY 200	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
DN013	HF Tilt Mechanism	Α				18	135	2,421	10	136	1,355
NU013	HF Tilt Mechanism*										
DN016	LIFDC Proodband	^				4	4 426	17 745			
NU016	HFRG Broadband HFRG Broadband*	Α	[1]	[4491]	[4491]	4	4,436	17,745			
140010	Til No Bloadbaild		ניו	[4431]	[4491]						
DN105	DMR	В				9	1,025	9,227	0		0
DN555	Production Support							2,922			1,309
	HF Tilt				[310]			428			439
	HFRG				[780]			1,900			672 198
	DMR				[1087]			594			198
DNZZZ	INSTALLATION							7,721			11,413
DN777	FMP HF Tilt							4,719 736			10,777 822
	HFRG				[210]			2,022			8,900
	DMR				. 1			1,961			1,055
DN777	DSA							3,002			636
	HF Tilt							82			92
	HFRG				[255]			2,800			247
	DMR							120			297
	Total SPAWAR Co	ONTROL						40,036			14,077
	FY03 and Prior: HF Tilt and HFRG budget is included under BLI 3057 Co	omm Items	s Under	\$5M. Provid	led for inforr	mational pu	urposes on	nly		1	
	FY04 HFRG buy includes 2 procurements plus an Engineering Change C	order to up	grade a	12kw HFRG	system (Be	ellewood LI	HA-3) into	two HFRG	(8kw & 4k	(w) system	s for the
	CVN67 and the CG-60.										
	FY04 Unit cost includes 3 HF ALE upgrades and 16 VRC-104										
	FY03 and Prior: DMR reflected in BLI 321500. Provided for informational	purposes	only								

## UNCLASSIFIED CLASSIFICATION

			February 2004
			rebluary 2004
	TURE	SUBHE	4D
VICATIONS	L COMMUNICATION	IS	52DN
	DATE OF FIRST QTY Delevery	UNIT AVAIL	ECS DATE  ABLE REVISIONS  W AVAILABLE
<del>+ + `</del>	Delevery	0031 NO	AVAILABLE
18	Jan-05 18	135 YE	≣S
10	Jan-06 10	136 YE	ES
4	Oct-04 4	4,436 YE	ES
9	Jul-05 9	1,025 YE	ES
	Jul-05	9	9 1,025 YE

February 2004 MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS

COST CODE DN013

MODELS OF SYSTEMS AFFECTED: HF TILT MECHANISMS

DESCRIPTION/JUSTIFICATION: Installation on ships to allow vertical whip antennas to be lowered to a horizontal position during flight operations.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	Prior Yrs			<u>/ 02</u>		<u>/ 03</u>		<u>/ 04</u>		Y 05		Y 06		<u>′ 07</u>		<u>′ 08</u>		<u>′ 09</u>		TC .		<u>Total</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits																						
Installation Kits Nonrecurring Equipment Equipment Nonrecurring\ Engineering Change Order	[27]	[2.7]	[2]	[0.3]	[0]	[0.0]	18	2.4	10	1.4	18	2.2	14	1.7	0	0.0	0	0.0	231	34.2	291	41.9
Data Training Equipment																						
Production Support Other (DSA)		[1.1]		[0.6] [0.0]		[0.3] [0.0]		0.4 0.1		0.4 0.1		0.5 0.1		0.5 0.2		0.2 0.1				1.2 2.1		3.3 2.5
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP	[13] [13]	[1.2] [1.2]	[0]	[0.0]	[0]	[0.0]	16 14	0.7 0.6	18	0.8	10	0.5	18	0.9	14	0.7	0	0.0	231	11.6	307 14	15.3 0.6
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP							2	0.1	18	0.8											2 0 18	0 0.0 0.8
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP									10	0.8	10	0.5	18	0.9							10 18	0.8 0.5 0.9
FY 07 EQUIP FY 08 EQUIP															14	0.7					14 0	0.7
FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		[1.2]		[0.0]		[0.0]		0.7		0.8		0.5		0.9		0.7		0.0	231	11.6 11.6	0 231	0.0 11.6 15.3
TOTAL PROCUREMENT COST		[5.0]		[0.9]		[0.3]		3.7		2.7		3.3		3.3		1.0		0.0		49.1		62.9
METHOD OF IMPLEMENTATION:		[0.0]	ı	[0.0]	l	[0.0]		0.7	I		ADMINI	STRATIVE	LEADTI		5 mos	1.0	I		ICTION	LEADT	IME:	12 mos
	CONTRAC			FY 2002:		May-02		FY 2003		N/A		FY 2004:		Jan-04		FY 2005		Jan-05				
	DELIVERY	DATES:		FY 2002:		May-03		FY 2003	3:	N/A		FY 2004:		Jan-05		FY 2005	<b>5</b> :	Jan-06				
INSTALLATION SCHEDULE:	PY	_		1	<u>FY</u> 2	<u>04</u> 3	4		1	<u>FY</u> 2	<u>/ 05</u> 3	4		1	<u>FY</u> 2	<u>'06</u> 3	4	_				
INPUT	[13]			3	4	6	3			6	6	6			7	3						
OUTPUT	[13]			3	4	6	3			6	6	6			7	3						
INSTALLATION SCHEDULE:			1	2 <u>FY</u>	<u>07</u> 3	4		1	2 <u>F</u>	<u>Y 08</u> 3	4		1	2	FY 09 3	4		TC		<u>TOTAL</u>		
INPUT				6	8	4	_		7	7		_					•	231	=	307		
OUTPUT				6	8	4			7	7								231		307		

Notes/Comments

FY03 and Prior: HF Tilt budget is included under BLI 3057 Comm Items Under \$5M. Provided for informational purposes only

Total inventory objective is 320 units. 29 units procured under BLI 3057. 291 will be procured under BLI 3010.

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS

COST CODE DN016/NU016

MODELS OF SYSTEMS AFFECTED: HIGH FREQUENCY RADIO GROUP

DESCRIPTION/JUSTIFICATION: Provides for fully automated operation of the High Frequency Communications System.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Prior Yr	rs	FY	02		Y 03		<u>/ 04</u>		<u> 7 05</u>		Y 06		Y 07		′ 08		′ 09	TC	2		<u>otal</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	[33]	[41.5]	[0]	[0.0]	[1]	[3.5]	2	6.4	0	0.0											2	6.4
Equipment Nonrecurring - HF ALE (URC 109)						[0.5]																0.0
Equipment Nonrecurring - HF ALE (VRC104)						[0.6]		8.6														
ECO-Upgrade CV-67 ad CG-60							2	2.7													2	2.7
Data																						
Training Equipment																						
Production Support		[1.4]		[1.3]		[8.0]		1.9		0.7												2.6
Other (DSA)		[0.7]		[0.5]		[0.3]		2.8		0.2												3.0
Interm Contractor Support																						
Installation of Hardware	[31]	[41.6]	[1]	[2.2]	[0]	[0.2]	1	2.0	4	8.9	0	0.0	0	0.0	0	0.0	0	0.0			5	10.9
PRIOR YR EQUIP	[31]	[41.6]	[1]	[2.2]																	0	0.0
FY 02 EQUIP																					0	0.0
FY 03 EQUIP					[0]	[0.2]	1	2.0													1	2.0
FY 04 EQUIP									4	8.9											4	8.9
FY 05 EQUIP																					0	0.0
FY 06 EQUIP																					0	0.0
FY 07 EQUIP																					0	0.0
FY 08 EQUIP																					0	0.0
FY 09 EQUIP																					0	0.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		[41.6]		[2.2]		[0.2]		2.0		8.9		0.0		0.0		0.0		0.0		0.0		10.9
TOTAL PROCUREMENT COST		[85.2]		[4.0]		[5.7]		24.5		9.8		0.0		0.0		0.0		0.0		0.0		34.3
METHOD OF IMPLEMENTATION:											ADMINIS	TRATIVE I	EADTIME	:		1 mos		PRODUC	TION LEA	ADTIME:		12 mos

	CONTRACT DATES:	FY 2002:	N/A	FY 2003:	Sep-03	FY 2004:	Jan-04	FY 2005:	N/A	
	DELIVERY DATES:	FY 2002:	N/A	FY 2003:	Nov-04	FY 2004:	Mar-05	FY 2005:	N/A	
		FY 04		<u>FY</u>	<u>05</u>		FY 06			
INSTALLATION SCHEDULE:	<u>PY</u> 1	2 3	4	1 2	3 4	1	2 3	4		
INPUT	[32]		1	2	2					
OUTPUT	[32]			1	2 2					
		=1.4=					=			
INSTALLATION SCHEDULE:	1	2 <u>FY 07</u> 2 3	4	1 2 <u>FY</u>	<u>08</u> 3 4	11	2 <u>FY 09</u> 2 3	4	TC	TOTAL
INPUT										5

### Notes/Comments

OUTPUT

February 2004

<sup>1/</sup> FY03 and Prior: The HFRG budget was included under BLI 3057 Comm Items Under \$5M. Provided for informational purposes only. Total inventory objective is 36 units. 34 units procured under BLI 3057. 2 units will be procured under BLI 3010.

<sup>2/</sup> The installation of the FY01 procurement of a 12 KW system was cancelled due to ship being decommissioned (LHA-3). This asset is being converted into two HFRG (8kw & 4kw) systems in FY04 via an Engineering Change Order for the CV-67 and the CG-60.

<sup>3/</sup> FY03 install includes installation of the HF ALE upgrades.

<sup>4/</sup> FY04 production support increases due to new version of system requiring additional initial ILS documentation.

<sup>6/</sup> FY05 install includes the FY04 HFALE procurements

<sup>7/</sup> FY04 Procurements includes 47 VRC104s

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS February 2004

COST CODE DN105/NR105

MODELS OF SYSTEMS AFFECTE DMR

DESCRIPTION/JUSTIFICATION: Provides four channel SATCOM terminal built to open systems architecture maximizing COTS/ND with the ability to evolve as commercial technology advances and supports future proofing.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(	PY		FY 02		FY 03		FY (	04	FY 05			Y 06		Y 07		FY 08	FY 09		Т		otal	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	,	\$ Qty	\$	Qty	\$	Qty	\$ Qty		\$
RDT&E																						
PROCUREMENT: Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	[41]	[26.2]	[Var]	[.3]	[0]	[0]	9	9.2	0	0.0	0	0.0								9	9.2	
Equipment Nonrecurring (Racks)	[58]	[3.3]									-											
Engineering Nonrecurring	' '					[1.087]																
Engineering Change Orders					(See	Note 6)																
Data																						
Training Equipment																						
Production Support		[12.6]		[2.3]		[0]		0.6		0.2		0.4		0.0							1.2	
Other (DSA)		[1.8]		[0]		[0]		0.1		0.3		0.5		0.4							1.3	
Interim Contractor Support Installation of Hardware*	0	0.000	[4]	[0]	[1]	[0]	12	2.0	5	1.1	8	1.7	7	1.5						32	6.2	
PRIOR YR EQUIP	0	0.000	[4]	[0]	[1]	[0]	12	2.0	3	1.1	4	0.8	7	1.5						23	4.3	
FY 00 EQUIP			1.1	[0]	111	[0]		2.0				[See Note	I	[See Note	e 41							
FY 01 EQUIP													ľ	[	T'							
FY 02 EQUIP																						
FY 03 EQUIP																						
FY 04 EQUIP									5	1.1	4	8.0								9	1.9	
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP FY 08 EQUIP																						
FY09 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST		0.0		[0]		[0]		2.0		1.1		1.7		1.5							6.2	=
TOTAL PROCUREMENT		[43.90]		[2.60]		[1.10]	1	11.9020		1.5500		2.609		1.8840	)						17.9	1
METHOD OF IMPLEMENTATION:			ADMIN	ISTRATI	VE LEA	AD-TIME	2 Months		PRODUC	CTION LE	AD-TIME	:	12 montl	าร								
CONTRACT DATES:	FY 20	102:	NA		FY 200	03:	NA				FY 2004	:	Ju	-04		FY 2005	: NA					
DELIVERY DATES:	FY 20	102.	NA		FY 200	13.	NA				FY 2004		lui	-05		FY 2005	: NA					
BELIVERT BATES.	1120	, O.Z.	147 (		1 1 200		147.				1 1 2004		ou	00		1 1 2000	. 101					
							FY 04					<u>F</u>	Y 05				FY 06					
INSTALLATION SCHEDULE:	PY	_				1	2	3	4		1	2	3	4		1	2 3		4			
		_							<u>-</u>													
INPUT	0						4	4	4					5		4	4					
OUTPUT	0						4	4	4					5		4	4					
OUTFUL	U						4	4	4					5		4	4					
		FY0	7				FY	08				<u>F</u>	Y 09									
INSTALLATION SCHEDULE:	1	2	3	4	_	1	2	3	4		1	2	3	4	_	TC	TOTA	AL				
INPUT		6	1														32					
OUTPUT		6	1														32					

### Notes/Comments

Note 3: DMR runti includes four channels per box.

Note 2: DMR racks included under Equipment Non-Recurring line.

Note 3: FY03 and Prior: DMR reflected in BLI 321500. Provided for information purposes only. Total inventory objective is 61 units: BLI 3215 and BLI 3010.

Note 4: Due to results of Navy Audit, 24 Military Sealift Command (MSC) assets directed to higher priority platforms: 4 to be installed in FY06, 7 assets in FY07, 13 remaining assets for SCN requirements. 2 (PY) DMR units provided to SSC-SD lab, 2 (PY) DMR units provided to SSC-CH lab. No installation cost to SPAWAR.

Note 5: FY02 procurements consist of ancillary equipment for the SSN 21 and SSN 23 (each kit includes one 500 watt HF power amplifier and one Sunair 9000 HF transceiver, SSN 21 receives one set SSN23 receives two sets. Note 6: FY03 Pentagon DMR unit installed at no cost to SPAWAR.

Note 7: FY04: New sole source contract requires non-recurring engineering support as part of production start-up.

### UNCLASSIFIED CLASSIFICATION

																															DATE																		
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																									(D	OD EX	(HIBI	Γ P-21)	)																				
PPRO	PRIATION/BUDGET ACT	TIVITY													P-1 I	TEM N	OME	NCL	ATUR	E													SUBI	HEAD	NO.														
)P,N - E	BA2 COMMUNICATIONS	& ELEC	TRO	NIC EQ	UIPME	NT										BLI: 3	3010	SHIP	TACT	ICAL	COM	MUNI	CATIC	NS										52DN															
			s		ACCEP	BAL				FI	SCAL	YEAI	R	03				FI	CAL	/EAR		04										FISC	AL YE	AR	0	5							FISC/	L YEA	AR	06	j		
COST	ITEM/MANUFACTURER									EAR		03		C	03				CALE	NDAR	YEAF	₹ 04							- (	CALEN	DAR	YEAR	05							C	ALEN	DAR Y	EAR	06					
CODE			R	QTY	то	AS OF	0	N	D	J	F	M A	M	J	J	Α	s c	0 1	i D	J	F	M	Α	м .	J	Α	s	0	N	D	J	F	М	Α	М	J .	JA	s	0			J	F	М	Α	M J	J J		ı
			v		1-Oct	1-Oct				Α			Α .			U			) E	Α	E	Α		Αl	J U	U	E	С	0	E		E	Α	P			U U	E	С		E	Α	E	Α		A U			J
		FY					Т	٧	С	N	В	R R	₹ Y	N	L	G	Р.	T١	/ C	N	В	R	R	Y	l L	. G	Р	T	٧	С	N	В	R	R	Υ	N	L G	P	Т	٧	С	N	В	R	R	Y N	N L	_ G	_
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	HF Tilt Mechanism	04		18		18														Α											5	5	5	3							Ш								Ц
DN013	HF Tilt Mechanism	05		10		10																									Α											5	5						Ш
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DN016	HFRG Broadband	04		4		4											1	Α										1	1	1	1																		
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DN105	DMR	04		9		9																			Α												2 2	1	2	2									Т
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	•				•	•	ОСТ	NOV	DEC	JAN F	ЕВ М	AR API	R MAY	JUN	JUL	AUG :	SEP O	CT N	OV DEC	JAN	FEB	MAR	APR	MAY JL	N JU	L AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN J	UL AU	3 SEP	ОСТ	NOV	DEC	JAN	FEB 1	MAR A	APR N	MAY JU	UN JUL	JL AU	G

			PRODUCTION RAT	E		PROCUREN	MENT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
HF Tilt mechanism	TBD	3/mo	6/mo	10/mo	30	30	360	360	420	Days
HFRG Broadband	Harris	1/mo	2/mo	3/mo	30	30	360	360	420	Days
DMR	General Dynamics Decision Systems	1/mo	51/mo	240/mo	30	30	240	N/A	300	Days

							DATE	Februa	ary 2004
APPROPRIATION/BU	DGET ACTIVITY			P-1 ITEM NOMEN	CLATURE		•	SUBHEAD	
OP,N - BA2 COMMUN	ICATIONS & ELECT	RONIC EQUIPMEN	T	BLI: 3050 SHIP CO	MMUNICATION AUT	OMATION		52PQ	
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$158.8	\$180.9	\$159.7	\$297.6	\$117.8	\$138.9	\$183.2	Continuing	Continuing

### PROGRAM COVERAGE/JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

Tactical Messaging (PQ065) (formerly know as Naval Modular Automated Communication System II (NAVMACS II)/Single Message Solution (SMS): Tactical Messaging automates and increases the speed and efficiency of handling organizational message traffic aboard ships. The program continues to satisfy the same requirements and implements products that are developed with an open system architecture, and are conducive to technological upgrades. Tactical Messaging products are being procured to host tactical (afloat) DMS and replace the older NAVMACS systems which lack the speed and capacity to handle current message traffic loads during periods of accelerated combat operations. Tactical DMS satisfies Multicommand Requirements of Operational Capability (MROC) requirements to transition to IP based organizational messaging. Phased implementation reduces procurement and installation cost in out years by reusing hardware assets installed FY-00 and out. Phase 1: NAVMACS II capability with DMS H/W infrastructure. Phase 2: Add DMS GENSER capability. Phase 3: Add SCI DMS capability.

Special Intelligence Communications (SI COMMS): Sensitive Compartmented Information (SCI) Networks (formerly SCI ADNS) (PQ068):
SCI Networks has been designated as an evolutionary program allowing for continued growth and expansion paralleling technology changes. The SI COMMS and TACINTEL programs were combined into the SI COMMS architecture to replace the outdated TACINTEL system developed in the early 1970s. It provides the mechanism for phased implementation of both planned improvements and those which surface through advancing technology. SCI Networks provides for the real-time exchange of SCI COMMS data to Afloat operational commanders. The cornerstone of this program is the versatility and growth potential of the processing and networking equipment which will provide the network centric communications for the SI community. The premise of using Commercial off-the-shelf (COTS), Government off-the-shelf (GOTS), non developmental items (NDI) and existing systems to meet the requirements for Special Intelligence Communications will continue to be followed. To realize the SCI Networks architecture, funds will procure the equipment necessary to implement the IT-21 architecture to provide SI Communications to the Fleet. Impact of no ship SCI COMMS is that the ability to detect, identify and prosecute hostile threats and provide warnings of grave danger to U.S. interests will be lost.

The shore terminal interface for Sensitive Compartmented Information (SCI) Networks/Tactical Intelligence Information Exchange (TACINTEL II+) will use commercial off-the-shelf (COTS), Government off-the-shelf (GOTS), Non-developmental items (NDI) and existing systems to meet the requirements for SI COMMS. The SI COMMS and TACINTEL programs were combined into the SI COMMS architecture to replace the outdated TACINTEL system developed in the early 1970s. The equipment also began the realization of the SCI Networks architecture. Funds will continue to procure the SCI Networks equipment necessary to implement the IT-21 architecture to provide SI COMMS to the Fleet. SCI Networks provides for a real-time exchange of Tactical SCI COMMS to afloat operational commanders. Impact of no shore SCI Networks is that ships cannot attain their network services.

The Trident program will enable OHIO Class (TRIDENT) submarines to participate in Demand Assigned Multiple Access (DAMA) communications over the UHF band and to receive and distribute message traffic in an Internet Protocol format. This program is applicable to 14 ships (SSBN 730-743). The implementation of Trident is required for completion of the Navy's migration from a message broadcast based on the Information Exchange System (IXS) to a broad cast based on Internet Protocol (IP). Trident IP is the implementation path that provides SCI functionality in the form of security enclaves above the secret level to OHIO class submarines.

P-1 SHOPPING LIST

Exhibit P-40

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI: 3050 SHIP COMMUNICATION	AUTOMATION	52PQ

Automated Digital Network System (ADNS) (PQ069): Provides procurement and technology enhancements for automated routing and switching of Tactical and Strategic C4I voice, video and data via Transmission Control Protocol/Internet Protocol (TCP/IP) networks. Links deployed Battle Group units with each other and with the Defense Information Systems Network (DISN) ashore via multiple Radio Frequency (RF) paths and pier connectivity. Consists of Commercial Off-The-Shelf (COTS) non-developmental Joint Tactical Architecture (JTA) compliant hardware (routers, processors, switches) and commercial software (network management) in a standardized, scalable shock qualified rack design. Merges multiple redundant stove pipe communications circuits and efficiently manages and shares the bandwidth among multiple shipboard enclaves resulting in better throughput.

Line includes Fleet Network Operation Centers (NOCs) Afloat which function as Internet Service Providers (ISP) for naval operating forces worldwide. Four regional NOCs located at Wahiawa, Hawaii; Norfolk, Virginia; Naples, Italy; and Bahrain are geographically located to ensure global access. NOCs provide IP traffic and load monitoring, managed interface to NIPRNET, SIPRNET and JWICS (where there are consolidated SCI/GENSER NOCs), domain name service (DNS) for ship connections, E-mail store and forward, dial-in services, web caching and Exchange services. In the near term, the network management system and metrics gathering/reporting methods will be upgraded so the operators can anticipate and prevent network outages and provide fleet users specific loading metrics. NOCs also provide security policy management, network intrusion detection and protection, firewalls, and virus scanning. Each NOC is required to provide this level of services to support all BGs in its AOR, underway or in port, and some NOC restoral.

The Trident program will enable OHIO Class (TRIDENT) submarines to participate in Demand Assigned Multiple Access (DAMA) communications over the UHF band and to receive and distribute message traffic in an Internet Protocol format. This program is applicable to 14 ships (SSBN 730-743). The implementation of Trident is required for completion of the Navy's migration from a message broadcast based on the Information Exchange System (IXS) to a broad cast based on Internet Protocol (IP). Trident IP is the implementation path to bring ADNS Routers and functionality to OHIO Class submarines.

Tactical Switching (PQ070): Provides the switching and bandwidth management components of high capacity interoperable communications, as the number one fleet CINC requirement in the Navy Wide C4 and Information Warfare (IW) Joint Mission Area (JMA) assessment. Provides for the shore segment interconnect of an end-to-end dynamic bandwidth management, Internet Protocol, and Channel Access Protocol capability to deploying Battle Groups/Amphibious Ready Groups and other support units. Automates the major shore nodes which allow network centric and lights-out operations. Provides afloat interoperability of tactical and strategic C4I circuits with Marine Corps Ground Mobile Forces (GMF). Tactical Switching (which includes GMF interoperability, Automated Network Control Center (ANCC), Automated Technical Control (ATC) and the Automated Digital Multiplexer System (ADMS)) is the key enabling mechanism for the execution of the Automated Digital Network System (ADNS) strategy which is essential to meeting the Information Technology for the 21st Century (IT21) vision. Tactical Switching system capabilities allow flexible, secure and reliable communications for voice, video, and data applications for Navy terrestrial RF links and pierside connectivity. Funding also provides for the Shore Infrastructure Modernization (SIM) technology which supports a robust and flexible networking environment while utilizing COTS/GOTS equipment and network protocols.

Exhibit P-40

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI: 3050 SHIP COMMUNICATION	AUTOMATION	52PQ

Integrated Shipboard Network Systems (ISNS) (PQ007): The Integrated Shipboard Network System (ISNS) program provides every Navy ship, including submarines, with a reliable, high-speed Local Area Network (LAN) that will provide LAN and Wide Area Network (WAN) access to the DISN WAN (Secure and Nonsecure Internet Protocol Router Network -SIPRNet and NIPRNet). It provides real-time information exchange between afloat units, Component Commanders, numbered Fleet Commanders and Fleet CINCs through the migration of existing legacy systems into the IT-21 strategy and is a key factor in the implementation of the Navy's portion of Joint Vision 2010. Under the Navy's information modernization strategy, full synchronization of shipboard networks, mission and information applications and Radio/Satellite communications and shore data dissemination infrastructure, installations are necessary to ensure end-to-end mission capability. The ISNS program maximizes the use of both COTS software and hardware resulting in dependence on commercially supported hardware and software. Engineering and technical support is provided so that existing systems will be upgraded/modified to keep pace with hardware and software that is supported commercially.

Joint Network Management System (JNMS) (PQ021): The Joint Network Management System (JNMS) is a CINC and Commander, Joint Forces (CJF), joint communications planning and management system. It provides communication planners with the capabilities to conduct high level planning (war planning); detailed planning and engineering; monitoring; control and reconfiguration; spectrum planning and management; and security of systems and networks supporting joint operations. The benefits provided by these increased capabilities include: enhanced force-level situational awareness (shared view of the network); enhanced flexibility to support the commander's intent; better utilization of scarce spectrum resources; and increased security of critical systems and networks. As an enabler for information superiority as-well-as command and control, the JNMS serves as the commander's "brain center" for the systems and networks supporting his forces. It ensures C4I unity of effort, exploitation of Total Force capabilities, proper positioning of critical information and allows for its fusion.

**Afloat PCs (PQ085, PQ086, PQ088):** Funds procurement of PCs, web enabling equipment and afloat network upgrades for Amphibious Ships, Surface Combatants, and Aircraft Carriers/Squadrons respectively.

Congressional Adds - FY02-03 (PQ455 Naval Air Warfare Center Aircraft Division Modeling and Simulation Technical Information Center (NAWCAD MSTIC) Equipment Upgrades & PQ456 Programmable Integrated Computer Terminals (ICT) Engineering Modifications).

P-1 SHOPPING LIST - Item No

ITEM NO.

	COST ANALYSIS						DATE	ı	ebruary	2004	
APPROPRIATIO	N ACTIVITY  MMUNICATIONS AND ELECTRONIC EQUIPMENT			NOMENCLA' SHIP COMMUN		OMATION				SUBHEAD 52PQ	
01 ,11 B/12 001	MINISTRICTURE PLEASURE EQUILIBRIES		DEI. 0000				IOUSANDS	OF DOLLAR		02. Q	
				FY 2003			FY 2004			FY 2005	
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
PQ065	Tactical Messaging	A	10	528.20	5,282	8	600.00	4,800	22	317.73	6,990
PQ068	SCI Networks	Α			9,040			3,281			449
1	SCI Networks Afloat		52	126.21	6,563	7	311.71	2,182	8	43.88	351
I	SCI Networks Ashore		2	465.00	930	3	366.33	1,099	4	24.50	98
	SCI Networks Trident IP		14	110.50	1,547	0	0.00	0	0	0.00	0
PQ069	ADNS	A			27,979			7,898			26,583
. 4000	ADNS Afloat		54	278.39	15,033	28	282.07	7,898	47	374.96	17,623
	ADNS Ashore		6	1,478.17	8,869	0	0.00	0	9	995.56	8,960
	ADNS Trident IP		14	291.21	4,077	0	0.00	Ö	0	0.00	0
PQ069/PQ071	Fleet NOC		4	847.00	3,388	4	129.75	519	1	41.00	41
PQ070	TACTICAL SWITCHING	Α			8,579			8,035			12,797
. 40.0	ANCC Ashore		1	1.139.00	1,139	5	584.20	2.921	5	487.40	2,437
	ADMS Ashore		5	1,488.00	7,440	5	1,022.80	5,114	0	0.00	0
	ADMS Afloat		0	0.00	0	0	0.00	0	46	225.22	10,360
PQ007	ISNS	A	41	743.49	30,483	64	1,203.48	77,023	30	1,135.03	34,051
PQ021	JNMS	В	0	0.00	0	6	837.67	5,026	1	1,272.00	1,272
PQ555	Production Support				5,725			7,771			4,183
PQ085	Amphibious Ship PCs				2,608			1,871			1,809
PQ086	Surface Combatants PCs				4,725			3,196			5,588
PQ088	Aircraft Carrier PCs				10,025			9,026			8,720
PQ455	NAWCAD MSTIC Equipment Upgrades				2,400						
PQ456	Programmable ICT Engineering Modifications										
4/ T	Procurement Total				110,234			128,446			102,483

<sup>1/</sup> Tactical Messaging, SCI Networks, ADNS and ISNS unit cost are based on average cost of all units. Variances are due to the diverse types of ship sets being procured.

Exhibit P-5

<sup>2/</sup> ANCC and ADMS quantities represent no. of sites. FY03 procures upgrades. Unit cost increases are

a result of complete system replacement rather than replacing components.

<sup>3/</sup> EMS unit cost includes nonrecurring system eng costs and procurement of software packages.

<sup>4/</sup> Trident unique ship alteration development performed at NUWC

### **UNCLASSIFIED** CLASSIFICATION

	COST ANALYSIS			DATE				Fe	ebruary 20	004	
_	RIATION ACTIVITY -2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT			NOMENCL SHIP COMMU	ATURE UNICATION AUTO	MATION				SUBHEAD 52PQ	
				FY200	3		FY200	4		FY200	5
COST	ELEMENT OF COST	ID CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
PQ777	INSTALLATION				48,603			52,424			57,235
	FMP Install				37,063			46,053			48,683
	DSA Install				5,237			5,075			3,892
	Non-FMP Install				6,303			1,296			4,660
	BUDGET EXHIBIT TOTAL				158,837			180,870			159,718

Exhibit P-5

P-1 SHOPPING LIST - Item No ITEM NO.

## UNCLASSIFIED CLASSIFICATION

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 **B. APPROPRIATION/BUDGET ACTIVITY** C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 52PQ BLI: 3050 SHIP COMMUNICATION AUTOMATION CONTRACTOR SPECS DATE CONTRACT RFP DATE COST **ELEMENT OF COST** FΥ AND **METHOD** LOCATION ISSUE **AWARD OF FIRST** QTY UNIT **AVAILABLE REVISIONS** CODE LOCATION & TYPE OF PCO DATE DATE **DELIVERY** COST NOW **AVAILABLE** 04 SSC CHARLESTON PQ065 Tactical Messaging WX **SPAWAR** Oct-03 Nov-03 Mar-04 8 600.0 YES N/A 05 SSC CHARLESTON WX **SPAWAR** Oct-04 Nov-04 Mar-05 22 317.7 YES N/A PQ068 SCI Networks Afloat 04 IDIQ **SPAWAR** Nov-03 7 311.7 YES N/A Various Dec-03 Mar-04 05 Various IDIQ **SPAWAR** Nov-04 Mar-05 8 43.9 YES N/A Dec-04 PQ068 SCI Networks Ashore 04 3 Various WX **SPAWAR** Nov-03 Dec-03 Mar-04 366.3 YES N/A 05 Various WX **SPAWAR** Dec-04 Mar-05 4 24.5 YES N/A Nov-04 PQ069 ADNS Afloat 04 IDIQ **SPAWAR** 282.1 YES Various N/A Nov-03 Apr-04 28 N/A 05 Various IDIQ **SPAWAR** Nov-04 Apr-05 47 375.0 YES N/A N/A PQ069 ADNS Ashore 05 Various IDIQ **SPAWAR** N/A Apr-05 9 995.6 YES N/A Nov-04 PQ069 Fleet NOC IDIQ YES 04 Various **SPAWAR** Jun-03 Oct-03 129.8 N/A Jan-04 4 05 IDIQ **SPAWAR** Oct-04 Jan-05 1 41.0 YES N/A Various Jun-03

### D. REMARKS

Note: Tactical Messaging, SCI Networks, ADNS and ISNS unit cost are based on average cost of all units. Variances are due to the diverse types of ship sets being procured relative to standard fleet support provided year to year.

DD FORM 2446, JUN 87 P-1 SHOPPING LIST Exhibit P-5A

ITEM NO.

## UNCLASSIFIED CLASSIFICATION

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 52PQ BLI: 3050 SHIP COMMUNICATION AUTOMATION CONTRACTOR CONTRACT RFP DATE **SPECS** DATE OF FIRST **ELEMENT OF COST** ISSUE QTY COST FΥ AND METHOD LOCATION AWARD UNIT AVAILABLE REVISIONS CODE LOCATION OF PCO DATE **DELIVERY** COST & TYPE DATE NOW AVAILABLE PQ070 ANCC Ashore 04 SSC CHARLESTON WX **SPAWAR** N/A Apr-04 5 584.2 YES Aug-04 N/A 05 SSC CHARLESTON WX 5 487.4 YES **SPAWAR** N/A Feb-05 Jun-05 N/A PQ070 ADMS Ashore 04 SSC SAN DIEGO WX **SPAWAR** N/A 5 1.022.8 YES Dec-03 Apr-04 N/A PQ070 ADMS Afloat 05 SSC SAN DIEGO WX **SPAWAR** N/A Dec-04 Apr-05 46 225.2 YES N/A PQ007 ISNS 04 Sep-03 Various **IDIQ SPAWAR** Nov-03 Jan-04 64 1,203.5 YES N/A 05 Various IDIQ **SPAWAR** Sep-04 Nov-04 Jan-05 30 1,135.0 YES N/A PQ021 JNMS 04 SAIC Option CECOM Dec-03 Apr-04 Jun-04 6 837.7 YES FY03 05 SAIC CECOM 1,272.0 YES FY04 Option Sep-04 Nov-04 Jan-05

### D. REMARKS

Note: Between years, the composition of ISNS ships change, i.e., one year may have more larger ships such as CVs while another year may consist mainly of SSNs. As a result, the per unit costs are different. Additionally, different ships require different peripherals, which leads to per unit cost differences.

DD FORM 2446, JUN 87 P-1 SHOPPING LIST Exhibit P-5A

ITEM NO.

February 2004

MODIFICATION TITLE: Tactical Messaging COST CODE PQ065/PQ777 MODELS OF SYSTEMS AFFECTED: Tactical Messaging

DESCRIPTION/JUSTIFICATION: The Tactical Messaging program will automate and increase the efficiency of message handling aboard ships and provide Tactical DMS capability as required by DMS Millestone III decision 1 July 2002.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

·		PY	F	Y 02	F١	/ 03	F	Y 04	F١	Y 05	F١	′ 06	FY	′ 07	FY	′ 08	F١	Y 09	<u>T</u>	С	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	128	60.011	20	6.267	10	5.282	8	4.800	22	6.990	18	5.990	2	1.000	2	2.158	3	2.220	Cont.	Cont.	213	94.7
Training Equipment Production Support Other (DSA) Interm Contractor Support		1.652 2.631		2.043 0.642		1.720 0.292		0.715 0.056		0.515 0.681		0.577 0.774		0.053 0.000		0.136 0.076		0.150 0.115		Cont. Cont.		7.561 5.267
Interm Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP	116 116	17.551 17.551	27 12	4.991 2.493	10	1.954	9	1.659	12	2.333	27	4.493	0	0.000	2	0.349	3	0.523	Cont.	Cont.	206 116 0 12	33.9 17.6 0.0 2.5
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP			15	2.498	5 5	0.910 1.044	5 4	1.003 0.656	4 8	0.778 1.555	14 13	2.327 2.166	0	0.000							20 10 8 22 13	3.4 2.0 1.4 3.9 2.2 0.0
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP		47.554		1.001		1.954		1.050		0.000		4 400	0		2	0.349	3	0.523		01	2 3 0 206	0.3 0.5 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		17.551 81.845		4.991 13.943				1.659		2.333		4.493		0.000		0.349		3.008		Cont.	206	33.9 141.4
METHOD OF IMPLEMENTATION: AIT		81.845			TD A TI\/E	9.248 LEADTIM	Е.	7.230 1 month		10.519		11.834 CTION LE	A DTIME:	1.053	4 months	2.719		3.008		Cont.		141.4
METHOD OF IMPLEMENTATION. AT				ADMINIS	IRAIIVE	LEADTIN	IE.	i illoriul			PRODU	STION LE	ADTIME.		4 1110111118	•						
CONTRACT DATES:							FY2003:		Nov-02	2			FY2004:		Nov-03				FY2005:		Nov-04	
DELIVERY DATES:				EV	04		FY2003:		Mar-03	3 Y 05			FY2004:		Mar-04				FY2005:		Mar-05	
INSTALLATION SCHEDULE:	PY	_	1	2	3	4		1	2	3	4	-	1	2	3	4	-					
INPUT	153		5	2	2	0		4	4	4	0		8	10	9	0						
OUTPUT	153		0	5	2	2		0	4	4	4		0	8	10	9						
				FY	07				E.	Y 08				FY	09							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	_	1	2	3	4	_	TC	-		TOTAL 1	<u>/</u>
INPUT			0	0	0	0		0	2	0	0		0	3	0	0		Cont.			206	
OUTPUT			0	0	0	0		0	0	2	0		0	0	3	0		Cont.			206	

#### Notes/Comments

ITEM NO.

P-3A Exhibit

<sup>1/</sup> Tactical Messaging was formerly known as NAVMACS II/SMS (Naval Modular Automated Communications Systems)

<sup>2/</sup> Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

<sup>3/</sup> Tactical Messaging (Ashore) dollars and quantities, previously accounted for on a separate P-3A, are reflected in the above figures (Training/testing units).

<sup>4/</sup> In FY06, 5 remaining procurements represent VME cards purchased for submarine platforms. In FY07, 2 remaining procurements repesent the same. VME card integration and installation will be covered under the Common Submarine Radio Room (CSRR). P-1 SHOPPING LIST

UNCLASSIFIED February 2004

MODIFICATION TITLE: SCI Networks (Afloat)

COST CODE PQ068

MODELS OF SYSTEMS AFFECTED: SCI Networks Build Two & Three / Carry On Build Two (AFLOAT)

DESCRIPTION/JUSTIFICATION: Provides Shipboard reception and transmission of multi-functional data using various data networks linking battlegroup commanders with intelligence databases.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

· · · · · · · · · · · · · · · · · · ·	Р	Υ	FY	ſ 02	FΥ	03	F	Y 04	F۱	Y 05	FY	06	FY	07	FY	′ 08	FY	09	Т	С	Т	otal
	Qtv	<u> </u>	Qtv	\$	Qtv	\$	Qtv	\$	Qtv	\$	Qtv	s	Qtv	\$	Qtv	\$	Qtv	\$	Qty	<u> </u>	Qtv	\$
RDT&E				-		,																
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	<103>	<11.9>	87	3.917	52	6.563	7	2.182	8	0.351	7	2.941	7	2.942	7	2.860	7	2.910	Cont.	Cont.	285	36.6
Equipment Nonrecurring	1100-	-11.0-	01	0.017	02	0.000	,	2.102		0.001	l '	2.041	'	2.072	,	2.000	l '	2.010	Oont.	Cont.	200	00.0
Engineering Change Orders																						
Data	article at the	l SLI 3215>	ļ																		See Note	
Training Equipment	\runded ii	I DLI 32 13/	i																		See Note	
Production Support		<.485>		1.198		0.391		0.104		0.028		0.145		0.147		0.143		0.148		Cont.		2.789
Other (DSA)		<1.834>		0.319		0.391		0.104		0.028		0.145		0.147		0.143						2.769
		<1.834>		0.319		0.115		0.042		0.000		0.119		0.126		0.133		0.126		Cont.		2.814
Interm Contractor Support	.00	.= 4.	70	0.445	00	- 0		4505		0.005	_	0.000	_	0.004	_	4 004	l _	4 000			054	47.0
Installation of Hardware*	<66>	<5.1>	78	2.445	60	5.657	14	1595	8	0.225	7	0.980	7	0.994	7	1.001	7	1.008	Cont.	Cont.	254	17.0
PRIOR YR EQUIP	<66>	<5.1>																			66	5.1
FY 00 EQUIP			_																		0	0.0
FY 01 EQUIP			6	0.188																	6	0.2
FY 02 EQUIP			72	2.257	15	1.010															87	3.3
FY 03 EQUIP					45	4.647	7	0.797													52	5.4
FY 04 EQUIP	<funded in<="" td=""><td>BLI 3215&gt;</td><td></td><td></td><td></td><td></td><td>7</td><td>0.798</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td>8.0</td></funded>	BLI 3215>					7	0.798													7	8.0
FY 05 EQUIP									8	0.225											8	0.2
FY 06 EQUIP											7	0.980									7	1.0
FY 07 EQUIP													7	0.994							7	1.0
FY 08 EQUIP															7	1.001					7	1.0
FY 09 EQUIP																	7	1.008			7	1.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		<5.1>		2.445		5.657		1.595		0.225		0.980		0.994		1.001		1.008		Cont.	254	19.0
TOTAL PROCUREMENT		<19.4>		7.879		12.726		3.923		0.604		4.185		4.209		4.137		4.192		Cont.		59.2
METHOD OF IMPLEMENTATION:			ADMINIS	STRATIVE	LEADTIN	ΛE:	1 Month	1	PRODU	CTION LE	ADTIME:		3 Months									
CONTRACT DATES:					FY 2003	:	Dec-0	2			FY2004:		Dec-03				FY2005:		Dec-04			
DELIVEDY DATES					E) / 0000						E\(000.4						E) (000E					
DELIVERY DATES:					FY 2003		Mar-0	3			FY2004:		Mar-04				FY2005:		Mar-05			
				FY	04				E١	<u> 7 05</u>				FY	06							
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1	2	3	4						
		•					•					-	-				-					
														_		_						
INPUT	211			4	3	0			4	4				3	2	2						
OUTPUT	204		7		4	3		0		4	4				3	2						
				EV	07					/ 00					00							
										<u> 7 08</u>					09							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	-	1	2	3	4	_ ,	TC	_		TOTAL	
INPUT				3	2	2			3	3 2	2			3	2	2		Cont.			254	
OUTPUT			2		3	2		2		3	2		2		3	4		Cont.			254	
0011 01			-		3	4		2		3					3	-		Cont.			207	

### Notes/Comments

P-1 SHOPPING LIST ITEM NO.

76

P-3A Exhibit

<sup>1/</sup> SCI ADNS has a carry-on variant that requires no installation. Therefore, the variation between the number of procurements vs. the number of installations.

<sup>(</sup>FY00 = 24, FY01 = 7, fully funded Carry-on's for a total of 31, which is the difference between P & I qtys on this page)
2/ Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

<sup>3/</sup> Quantity listed for FY02-06 includes Security Backfits required per ONI.

MODIFICATION TITLE: SCI Networks (Ashore)

COST CODE PQ068

MODELS OF SYSTEMS AFFECTED: SI-COMMS - SCI Networks Build 2 and Build 3 (ASHORE)

DESCRIPTION/JUSTIFICATION: Provides shore based reception and transmission of multi-functional data using various data networks linking battle group commanders with intelligence databases.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	D.	V		′ 02		′ 03	ΓV	′ 04	ΓV	05	ΓV	06	Ε.	07	Ε.	′ 08		′ 09	т.	_	To	tal
	Qty P	<u> </u>	Qtv F1	\$	Qtv	\$ \$	Qtv	<u>.04</u> \$	Qty	<u> </u>	Qtv	<u>06</u> \$	l Qtv	\$	Qty	\$	Qtv	\$	Qty	<u>C</u> \$	Qtv 10	<u>s l</u>
RDT&E	Qty	Ą	Qty	φ	Qty	<del>_</del> _	Qty	Ψ	Qty	٠,	Qty	Ψ	Qty	Ą	Qty	φ	Qty	Ψ	Qty	φ	Qty	φ
PROCUREMENT:								ŀ	1													
Kit Quantity								ŀ	1													
Installation Kits								ļ	1													
Installation Kits Nonrecurring								ŀ	1													
Equipment	<31>	<1.9>	4	0.172	2	0.930	3	1.099	4	0.098	4	0.140	4	0.174	4	0.193	4	0.200	Cont.	Cont.	60	4.9
Equipment Nonrecurring				-					1													
Engineering Change Orders								ļ	1													
Data	<funded in<="" td=""><td>BLI 3215&gt;</td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></funded>	BLI 3215>						ļ	1													
Training Equipment								ļ	1													
Production Support								ļ	1													
Other (DSA)								ļ	1													
Interm Contractor Support								ŀ	1													
Installation of Hardware*	<31>	<1.3>	4	0.457	2	0.257	3	0.324	4	0.112	4	0.171	4	0.201	4	0.200	4	0.215	Cont.	Cont.	60	3.2
PRIOR YR EQUIP	<31>	<1.3>						ļ	1												27	1.2
FY 00 EQUIP								ļ	1												0	0.0
FY 01 EQUIP								ŀ	1												4	0.1
FY 02 EQUIP			4	0.457				ŀ	1												4	0.5
FY 03 EQUIP	<funded in<="" td=""><td>BLI 3215&gt;</td><td></td><td></td><td>2</td><td>0.257</td><td></td><td>ļ</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>0.3</td></funded>	BLI 3215>			2	0.257		ļ	1												2	0.3
FY 04 EQUIP							3	0.324	1												3	0.3
FY 05 EQUIP								ŀ	4	0.112											4	0.1
FY 06 EQUIP								ŀ	1		4	0.171									4	0.2
FY 07 EQUIP								ŀ	1				4	0.201							4	0.2
FY 08 EQUIP								ŀ	1						4	0.200					4	0.2
FY 09 EQUIP								ŀ	1								4	0.215			4	0.2
FY TC EQUIP									ь										<u> </u>		0	0.0
TOTAL INSTALLATION COST		<1.3>		0.457		0.257		0.324		0.112		0.171		0.201		0.200		0.215	<u> </u>	Cont.	60	3.2
TOTAL PROCUREMENT		<2.2>		0.629		1.187		1.423		0.210		0.311		0.375		0.393		0.415	<u> </u>	Cont.		8.1
METHOD OF IMPLEMENTATION:					1 Month		PRODUC	TION LEA	ADTIME:		3 Months											
METHOD OF IMPLEMENTATION:																						
							FY 2003:		Dec-02				FY2004:		Dec-03				FY2005:		Dec-04	
CONTRACT DATES:																						
DELIVERY DATES:							FY 2003:		Mar-03				FY2004:		Mar-04				FY2005:		Mar-05	
							FY 2003:		Mar-03				FY2004:		Mar-04				FY2005:		Mar-05	
DELIVERY SYNES.				FY	04		FY 2003:						FY2004:	FY					FY2005:		Mar-05	
522.12.11 5.1123.	DV		1	FY 2			FY 2003:	1	FY	05	4				06				FY2005:		Mar-05	
	PY		11	<u>FY</u> 2	<u>04</u> 3	4	FY 2003:	1			4		FY2004:	<u>FY</u> 2		4			FY2005:		Mar-05	
INSTALLATION SCHEDULE:			1	2	3		FY 2003:	1	<u>FY</u> 2	<u>* 05</u> 3	4			2	<u>06</u> 3				FY2005:		Mar-05	
	PY 37		1				FY 2003:	1	FY	05	4				06				FY2005:		Mar-05	
			1	2	3		FY 2003:	1	<u>FY</u> 2	<u>* 05</u> 3	4			2	<u>06</u> 3				FY2005:		Mar-05	
INSTALLATION SCHEDULE:	37		1	2	3	4	FY 2003:	1	<u>FY</u> 2	7 <u>05</u> 3				2	06 3 2	4			FY2005:		Mar-05	
INSTALLATION SCHEDULE:			1	2	2		FY 2003:	1	<u>FY</u> 2	<u>* 05</u> 3	4			2	<u>06</u> 3				FY2005:		Mar-05	
INSTALLATION SCHEDULE:	37		1	2	2	4	FY 2003:	1	<u>FY</u> 2	7 <u>05</u> 3				2	06 3 2	4			FY2005:		Mar-05	
INSTALLATION SCHEDULE:	37		1	1	2	4	FY 2003:	1	2 2	2 2				2	06 3 2 2	4			FY2005:		Mar-05	
INSTALLATION SCHEDULE: INPUT OUTPUT	37		1	1 FY	3 2 1	2	FY 2003:	1	2 2 <u>FY</u>	2 2	2		1	2 2 <u>FY</u>	06 3 2 2	2			FY2005:			
INSTALLATION SCHEDULE:	37		1	1	2	4	FY 2003:	1 1	2 2	2 2				2	06 3 2 2	4		<u>TC</u>	FY2005:		Mar-05	
INSTALLATION SCHEDULE: INPUT OUTPUT	37		1	1 FY	3 2 1	2	FY 2003:	1	2 2 <u>FY</u>	2 2	2		1	2 2 <u>FY</u>	06 3 2 2	2			FY2005:			
INSTALLATION SCHEDULE: INPUT OUTPUT	37		1	1 FY	3 2 1	2	FY 2003:	1	2 2 <u>FY</u>	2 2 2 208 3	2		1	2 2 <u>FY</u>	06 3 2 2 2 09 3	2			FY2005:			
INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:	37		1	2 1 FY 2	3 2 1 07 3	2	FY 2003:	1	2 2 <u>FY</u> 2	2 2 2 3 3 3	2		1	2 2 <u>FY</u> 2	06 3 2 2 2 09 3	2		тс	FY2005:		<u>TOTAL</u>	
INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:	37		1	2 1 FY 2	3 2 1 07 3	2	FY 2003:	1	2 2 <u>FY</u> 2	2 2 2 3 3 3	2		1	2 2 <u>FY</u> 2	06 3 2 2 2 09 3	2		тс	FY2005:		<u>TOTAL</u>	

Notes/Comments

P-1 SHOPPING LIST ITEM NO. 76

<sup>1/</sup> Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

MODIFICATION TITLE: SCI Networks - Trident IP

COST CODE PQ068

MODELS OF SYSTEMS AFFECTED: SSBN

DESCRIPTION/JUSTIFICATION: Procurement of Routers for Trident

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	P			<u> </u>		03	FY 04		FY 05	FY 06		FY 07	FY 08	FY 09	TC		otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	(	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E																	
PROCUREMENT:																0	0.0
Kit Quantity																0	0.0
Installation Kits																0	0.0
Installation Kits Nonrecurring				0.070		0.540										0	0.0
Equipment			2	0.078	14	0.546										16	0.6
Equipment Nonrecurring			2	0.647	14	1.001										16	1.6
Engineering Change Orders																0	0.0
Data																0	0.0
Training Equipment						0.070										0	0.0
Production Support Other (DSA)						0.076										0	0.1
																0	0.0
Interm Contractor Support Installation of Hardware*																0	0.0 0.0
PRIOR YR EQUIP																0	0.0
FY 00 EQUIP																0	0.0
FY 01 EQUIP																0	0.0
FY 02 EQUIP																0	0.0
FY 03 EQUIP																0	0.0
FY 04 EQUIP																0	0.0
FY 05 EQUIP																0	0.0
FY 06 EQUIP																0	0.0
FY 07 EQUIP																0	0.0
FY 08 EQUIP																0	0.0
FY 09 EQUIP																0	0.0
FY TC EQUIP																0	0.0
TOTAL INSTALLATION COST		0.0		0.000		0.000		0.0	0.0	0.0	_	0.0	0.0	0.0	0.0	0	0.0
TOTAL PROCUREMENT		<19.4>		0.725		1.623		0.0	0.0	0.0		0.0	0.0	0.0	0.0	·	2.3
METHOD OF IMPLEMENTATION:					1 Month		PRODUCTIO			3 Months		0.0	0.0	0.0	0.0		2.0
METHOD OF IMPLEMENTATION.								J. ( LL)		o monaro							
CONTRACT DATES:							FY 2003:		Feb-03		FY	2004:			FY2005:		
DELIVERY DATES:							FY 2003:		Apr-03		EV.	2004:			FY2005:		
DELIVERT DATES.							F1 2003.		Api-03		F 1.	2004.			F12005.		
					0.4				F)/ 05			EV.	00				
				FY					FY 05			FY					
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2 3	4		1 2	3 4	_			
INPUT																	
OUTPUT																	
001701																	
				FY	07				FY 08			FY	09				
INSTALLATION SCHEDULE:			1	2	3	4		1	2 3	4		1 2	3 4	TC		TOTAL	
												-			_		
INPUT														Cont.		0	
IN OT														COIII.		U	

### Notes/Comments

OUTPUT

P-1 SHOPPING LIST ITEM NO. 76

P-3A Exhibit

0

Cont.

<sup>1/</sup> Shore assets are turnkey installations provided by NUWC, Newport.
2/ Trident Refit Facilities are mission funded NAVSEA activities providing SSBN support. Installations provided by TRF.

MODIFICATION TITLE: Automated Digital Network System (ADNS)

COST CODE PQ069/PQ77

MODELS OF SYSTEMS AFFECTED: Automated Digital Network System (ADNS) Afloat.

DESCRIPTION/JUSTIFICATION: Automated Digital Network System (ADNS) implements ATM multiplexing technology, and JDIICS-D compliant Integrated Network Management tools.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																						
		PY		<u>FY 02</u> <u>FY 03</u> tv \$   Qtv \$				Y 04		Y 05		<u> 7 06</u>		07		<u>/ 08</u>		Y 09	. I	C		<u>otal</u>
	Qt	y \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	17	1 44.087	42	11.423	54	15.033	28	7.898	47	17.623	48	18.647	46	19.341	40	19.727	39	22.021	Cont.	Cont.	515	175.8
Equipment Nonrecurring																					0	0.0
Engineering Change Orders																					0	0.0
Data																					0	0.0
Training Equipment																					0	0.0
Production Support		5.548		4.816		0.812		0.686		0.776		0.657		0.773		0.801		0.995		Cont.	0	15.9
Other (DSA)		4.860		0.399		0.696		0.877		1.166		1.196		1.143		0.996		0.975		Cont.	0	12.3
Interm Contractor Support	4-		40	4 404	45	44.070	00	0.000	4-7	0.404	40	0.475	40	0.500	40	7.000	00	7.070	40	01	0	0.0
Installation of Hardware*	15 15			4.121	45	11.679	38	6.282	47	8.161	48	8.475	46	8.599	40	7.822	39	7.970	13	Cont.	515	104.2
PRIOR YR EQUIP	15	7 41.075	'																		157	41.1
FY 00 EQUIP			44	4 074																	0	0.0
FY 01 EQUIP FY 02 EQUIP			14 28	1.374 2.747	14	3.633															14 42	1.4 6.4
FY 02 EQUIP FY 03 EQUIP			28	2.747	31	3.033 8.046	23	3.802													54	11.8
FY 04 EQUIP					31	0.040	15	2.480	13	2.257											28	4.7
FY 04 EQUIP FY 05 EQUIP							15	2.400	34	5.904	13	2.295									47	8.2
FY 06 EQUIP									34	3.804	35	6.180	13	2.430							48	8.6
FY 07 EQUIP											33	0.100	33	6.169	13	2.542					46	8.7
FY 08 EQUIP													33	0.109	27	5.280	13	2.657			40	7.9
FY 09 EQUIP															21	3.200	26	5.313	13	2.7	39	5.3
FY TC EQUIP																	20	0.010	Cont.	2.1	0	0.0
TOTAL INSTALLATION COST	-	41.075	1	4.121		11.679		6.282		8.161		8.475		8.599		7.822		7.970	OOH.	Cont.	515	104.2
TOTAL PROCUREMENT COST		95.570		20.759		28.220		15.743		27.726		28.975		29.856		29.346		31.961		Cont.	0.0	308.2
METHOD OF IMPLEMENTATION: AIT			-1		STRATIVI	LEADTIN	1E:	1 month			PRODU	CTION LE	ADTIME:		5 month				L		1	
CONTRACT DATES:							FY2003:		Nov-02	2			FY2004:		Nov-03				FY2005:		Nov-04	
DELIVERY DATES:							FY2003:		Apr-03	3			FY2004:		Apr-04				FY2005:		Apr-05	
					′ 04					Y 05				FY								
INSTALLATION SCHEDULE:	P.	<u>/</u>	1	2	3	4	-	1	2	3	4	_	1	2	3	4						
N.B.I.T.					_																	
INPUT	24	4	23		7	8		13		22	12		13		20	15						
OUTPUT	24	4	23		7	8		13		22	12		13		20	15						
001901	24	4	23		1	8		13		22	12		13		20	15						
				EV	<u>′ 07</u>				E	Y 08				FY	ng							
INSTALLATION SCHEDULE:			1	2	<u>-07</u> 3	4		1	2	3	4		1	2	3	4		TC			TOTAL	
INSTALLATION SCHEDULE:					3	4	-				4	_			3	4		10	-		TOTAL	
INPUT			13		20	13		13		14	13		13		13	13		13			515	
OUTPUT			13		20	13		13		14	13		13		13	13		13			515	
			.5							• • •											0.0	

Notes/Comments

P-1 SHOPPING LIST ITEM NO. 76 P-3A Exhibit

February 2004

<sup>1/</sup> Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

MODIFICATION TITLE: Automated Digital Network System (ADNS). 1/

COST CODE PQ0069/PQ776

MODELS OF SYSTEMS AFFECTED: Automated Digital Network System (ADNS) Ashore / Network Operations Center (NOC).

DESCRIPTION/JUSTIFICATION: Automated Digital Network System (ADNS) implements ATM multiplexing technology, and JDIICS-D compliant Integrated Network Management tools. It adds SCI ADNS Architecture, Integrated Network Management

Architecture, and supports legacy system programs. FY02 and prior includes Fleet Network Operation Centers (NOCs) Ashore.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)	F	PΥ	F`	Y 02	FΥ	r 03	FY	′ 04	FY	05	F۱	′ 06	FY	07	F۱	7 08	F۱	′ 09	т	<u>C</u>	To	otal
	Qty	<u>.</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring					-								-								-	
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	23	12.961	7	4.098	6	8.869			9	8.960	9	7.579	9	3.863	9	2.497	9	1.241	Cont.	Cont.	81 0 0 0	50.1 0.0 0.0 0.0 0.0
Production Support Other (DSA) Interm Contractor Support						0.426		0.000		0.325		0.350		0.175		0.100		0.060			0 0	1.4 0.0 0.0
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP	23 23	7.002 7.002	7	1.711	6	1.450	0	0.000	9	4.464	9	4.088	9	1.887	9	0.997	9	0.700	Cont.	Cont.	81 23 0 0	22.3 7.0 0.0 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP			7	1.711	6	1.450			9	4.483	9	4.094	9	1.890							7 6 0 9 9	1.7 1.5 0.0 4.5 4.1 1.9
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP															9	0.997	9	0.698			9 9 0	1.0 0.7 0.0
TOTAL INSTALLATION COST		7.002		1.711 5.809		1.450		0.000		4.464		4.088		1.887		0.997		0.700		Cont.	81	22.3
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION: AIT		19.963			TRATIVE	10.745 E LEADTIN	<u>I</u> ИЕ:	1 month		13.749	PRODU	12.017 CTION LE	ADTIME	5.925	5 month	3.594 is		2.001		Cont.		73.8
CONTRACT DATES:							FY2003:		Dec-02				FY2004:						FY2005:		Nov-04	
DELIVERY DATES:							FY2003:		Apr-03				FY2004:						FY2005:		Apr-05	
INSTALLATION SCHEDULE:	PY	_	1	<u>FY</u> 2	7 <u>04</u> 3	4	-	1	<u>FY</u> 2	<u>05</u> 3	4	_	1	<u>FY</u> 2	<u>06</u> 3	4	-					
INPUT	36									9					9							
OUTPUT	36										9					9						
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	<u>' 07</u> 3	4		1	<u>FY</u> 2	<u>08</u> 3	4	_	11	<u>FY</u> 2	<u>'09</u> 3	4		TC	_		TOTAL	
INPUT					9					9						9		Cont.			81	
OUTPUT						9					g	)				9		Cont.			81	

### Notes/Comments

1/ Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

FY 04 FY 05

<u>FY 06</u> <u>FY 07</u> <u>FY 08</u>

MODIFICATION TITLE: Network Operations Center (NOC) Afloat shore sites.

PQ0069/PQ071/PQ777 COST CODE

MODELS OF SYSTEMS AFFECTED: Network Operations Center (NOC) Afloat shore sites.

DESCRIPTION/JUSTIFICATION: The Fleet Network Operations Centers (NOCs) function as Internet Service Providers (ISP) for naval afloat operating forces worldwide.

The four regional NOCs are located at Wahiawa, Hawaii; Norfolk, Virginia; Naples, Italy; and Bahrain.

FY 02 FY 03

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits																				
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data			4	3.388	4	0.519	1	0.041	2	0.182	2	0.212	4	0.449	4	0.448	Cont.	Cont.	21 0 0 0	5.2 0.0 0.0 0.0
Training Equipment Production Support Other (DSA) Interm Contractor Support				0.143		0.012		0.003		0.010		0.011		0.025		0.033		Cont.	0 0 0	0.0 0.2 0.0 0.0
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP			4	1.320	4	0.098	1	0.013	2	0.062	2	0.072	4	0.150	4	0.160	Cont.	Cont.	21 0 0 0 0	1.9 0.0 0.0 0.0 0.0
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP			4	1.320	4	0.098	1	0.013	2	0.062	2	0.072	4	0.150					4 4 1 2 2	1.3 0.1 0.0 0.1 0.1 0.2
FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST				1.320		0.098		0.013		0.062		0.072		0.150	4	0.160		Cont.	4 0 21	0.2 0.0 1.9
TOTAL PROCUREMENT COST				4.851		0.629		0.057		0.254		0.295		0.624		0.641		Cont.		7.4
METHOD OF IMPLEMENTATION: AIT		ADMINIS	STRATIVE	LEADTIN	ΛE:	3 months			PRODU	CTION LE	ADTIME	:	4 months	3						
CONTRACT DATES:					FY2003:		Oct-02				FY2004:		Oct-03				FY2005:		Oct-04	
DELIVERY DATES:					FY2003:		Jan-03				FY2004:		Jan-04				FY2005:		Jan-05	
INSTALLATION SCHEDULE:	PY	1 2	<u>′ 04</u> 3	4		1	2 2	<u>05</u> 3	4		1	<u>FY</u> 2	<u>06</u> 3	4						
INPUT	4		4					1					2							
OUTPUT	4			4					1					2						
INSTALLATION SCHEDULE:		1 2	<u>′ 07</u> 3	4	•	1	<u>FY</u> 2	3	4		1	<u>FY</u> 2	09 3	4		TC			TOTAL	
INPUT			2					4					4			Cont.			21	
OUTPUT				2					4	·				4		Cont.			21	

### Notes/Comments

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<sup>1 /</sup> Quantites reflect upgrades at each of the four sites to maintain connectivity and compatability with respect to the current ISNS afloat networks 14 of 22

<sup>2/</sup> NOCs were previously rolled-up within the ADNS Ashore program within PQ069

<sup>3/</sup> Cost increases in FY03 only are a result of the addition of Shore Integrated Master Plan (SIMP) funding requirements.

MODIFICATION TITLE: ADNS - Trident IP

COST CODE PQ069 SSBN

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION: Procurement of Routers for Trident

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	P	<u>Y</u>	<u>F</u>	<u> </u>	FY	′ 03	FY	04	FY 05	FY 06		FY 07	FY	08	FY 09	TC	<u>T</u>	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty \$	Qty	\$	Qty \$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 05 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	Qty	\$	2 2	\$ 0.061 1.705	Qty 14 14	\$ 0.658 3.419 0.059 0.580	16 16	0.849 2.316	Qty \$	Qty	<b>\$</b>	Qty \$	Qty	\$	Qty \$	Qty \$	0 0 0 0 16 16 0 0 0 16 0 0 0 16 0 0 0 0	\$ 0.0 0.0 0.0 0.0 0.7 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
FY 05 EQUIP FY 06 EQUIP																	0	0.0
FY 07 EQUIP																	0	0.0
FY 08 EQUIP FY 09 EQUIP																	0	0.0 0.0
FY TC EQUIP																	0	0.0
TOTAL INSTALLATION COST		0.0		0.000		0.000		2.316	0.0		0.0	0.0		0.0	0.0	0.0	16	2.3
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		<7.5>	ADMINIS	1.766 STRATIVE	LEADTIN	4.716 //E:	1 Month	3.165	0.0 PRODUCTION LEA		0.0	0.0 3 Months		0.0	0.0	0.0		9.6
me mos or iiii eemerrii mori.			7151111111	,,,,,,,,,,	22,12							o monaro						
CONTRACT DATES:							FY 2003:		Feb-03			FY2004:				FY2005:		
DELIVERY DATES:							FY 2003:		Apr-03			FY2004:				FY2005:		
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>04</u> 3	4		1	FY 05 2 3	4		1 2	Y 06 3	4				
INPUT	0		6	8	2													
OUTPUT	0		6	8	2													
				E.	07				EV 00			_	V 00					
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	3	4		1	<u>FY 08</u> 2 3	4		1 2	Y 09 3	4	TC	<u>-</u>	TOTAL	
INPUT															Cont.		16	
OUTPUT															Cont.		16	

### Notes/Comments

P-1 SHOPPING LIST ITEM NO. 76

<sup>1/</sup> Trident Refit Facilities are mission funded NAVSEA activities providing SSBN support. 2/ Production support funding includes acceptance testing.

<sup>3/ \$2.325</sup> be will used for installation of eight (8) units at Bangor, remaining installations to be performed at Kings Bay at no cost to SPAWAR/PEO C4I.

MODIFICATION TITLE: Tactical Switching 1/

COST CODE PQ070/PQ777

MODELS OF SYSTEMS AFFECTED: Automated Network Control Center (ANCC)

DESCRIPTION/JUSTIFICATION: Modifications to operational ADNS/ANCC/ATCs to maintain current technology, modernization of manual patch and test facilities.

Quantities reflect the following five communication nodes: Med, Lant, Eastpac, Westpac and Eurcent. Costs vary by site requirements and configuration.

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ III IIIIIIIIIIIS)																						
		PY .		Y 02		<u>/ 03</u>		<u>/ 04</u>		Y 05		<u> 7 06</u>		<u>Y 07</u>		<u>/ 08</u>		Y 09	_ <u>I</u>		<u>To</u>	
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	15	21.651	0	0.000	1	1.139	5	2.921	5	2.437	5	2.402	5	2.298	5	1.602	5	1.927	Cont.	Cont.	46 0 0 0	36.4 0.0 0.0 0.0 0.0
Production Support Other (DSA) Interm Contractor Support		0.125		0.000		0.063		0.175		0.120		0.114		0.113		0.066		0.102		Cont. Cont.	0	0.0 0.9 0.0 0.0
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP	15 15	4.407 4.407	0	0.000	0	0.000	6	1.000	5	0.841	5	0.832	5	0.735	5	1.100	5	1.300	Cont.	Cont.	46 15 0 0	10.2 4.4 0.0 0.0 0.0
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP					0	0.000	1 5	0.260 0.740	5	0.841	5	0.834	5	0.736	5	1.100					1 5 5 5 5	0.3 0.7 0.8 0.8 0.7 1.1
FY 09 EQUIP FY TC EQUIP																	5	1.300			5 0	1.3 0.0
TOTAL INSTALLATION COST		4.407		0.000		0.000		1.000		0.841		0.832		0.735		1.100		1.300		Cont.	46	10.2
TOTAL PROCUREMENT COST		26.183		0.000		1.202		4.096		3.398		3.348		3.146		2.768		3.329		Cont.		47.5
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	ELEADTIN	1E:	3 months			PRODU	CTION LE	ADTIME	:	4 months	<b>;</b>						
CONTRACT DATES:							FY2003:		Apr-03	3			FY2004		Apr-04				FY2005:		Feb-05	
DELIVERY DATES:							FY2003:		Nov-03	3			FY2004		Aug-04				FY2005:		Jun-05	
									_					_								
INSTALLATION SCHEDULE:	PY	_	1	2 2	3	4		1	2	<u>Y 05</u> 3	4	_	1	2 2	<u>′ 06</u> 3	4	-					
INPUT	15		1			5					5					5						
OUTPUT	15			1				5					5									
				FY	07				<u>F</u>	Y 08				FY	′ 09							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	=	1	2	3	4	-	TC	-		TOTAL 2/	'
INPUT						5					5					5		Cont.			46	
OUTPUT			5					5					5	;		5		Con.t			46	

#### Notes/Comment

- 1/ Quantity is representative of the number of communication nodes visited, not the total number of visits to each site. Unit cost varies depending on site and amount of work done at each site.
- 2/ There is no defined ANCC Inventory Objective. The ANCC Strategy is a continual expansion of switching capabilities at 5 major communication nodes to meet the afloat termination requirements.
- 3/ For FY03 FY09, upgrades require an expansion and partial replacement of the ANCC equipment.
- 4. Funding provided to include support for Shore Infrastructure Modernization (SIM).

P-1 SHOPPING LIST

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ITEM NO. 76

MODIFICATION TITLE: Tactical Switching 1/
COST CODE PQ070/PQ776

MODELS OF SYSTEMS AFFECTED: Automated Digital Multiplexer System (ADMS) - Ashore

DESCRIPTION/JUSTIFICATION: Automated Network management capability which is fully compatible with switching technologies and in compliance with national and international standards.

Quantities reflect the units at various sites within the following areas of coverage: Med, Lant, Eastpac, and Westpac. Costs vary by site size, requirements and configuration.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,		PY	F	ſ 02	FY	′ 03	F	Y 04	F	Y 05	F	Y 06	FY	07	F	7 08	F'	Y 09	7	ΓC	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																						
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	90	7.320	3	0.499	5	7.440	5	5.114	0	0.000	0	0.000	0	0.000	5	2.149	5	2.622	Cont.	Cont.	113 0 0 0 0	25.1 0.0 0.0 0.0 0.0
Production Support Other (DSA) Interm Contractor Support		0.108		0.021		0.337		0.594		0.000		0.000		0.000		0.108		0.125		Cont.	0 0 0	1.3 0.0 0.0
Installation of Hardware* PRIOR YR EQUIP FY 00 EQUIP FY 01 EQUIP FY 02 EQUIP FY 02 EQUIP	90	2.910 2.910	2	0.178	5	3.276	5	0.551	0	0.000	0	0.000	0	0.000	5	1.439	5	1.871	Cont.	Cont.	112 90 0 0 2	10.2 2.9 0.0 0.0 0.2
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP					5	3.276	5	0.551	0	0.000	0	0.000	0.0	0.000	5	1.439	5	1.871			5 5 0 0 5 5	3.3 0.6 0.0 0.0 0.0 1.4 1.9
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		2.910		0.178		3.276		0.551		0.000		0.000		0.000		1.439		1.871		Cont.	112	10.2
TOTAL PROCUREMENT COST		10.338		0.698		11.053		6.259		0.000		0.000		0.000		3.696		4.618		Cont.		36.7
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	LEADTIM	E:	3 months			PRODU	CTION LE	ADTIME:		4 months							
CONTRACT DATES:							FY2003:	:	Jun-03				FY2004:		Dec-03				FY2005:			
DELIVERY DATES:							FY2003:	:	Sep-03	3			FY2004:		Apr-04				FY2005:			
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>′ 04</u> 3	4		1	<u>F`</u> 2	<u>Y 05</u> 3	4		1	<u>FY</u> 2	<u>06</u> 3	4						
INPUT	97	_			5					-		_			-							
OUTPUT	97					5																
NOTALLATION COLLEGE II F					07					Y 08					09			T0			TOTAL	
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	-	1	2	3	4		TC	-		TOTAL	
INPUT										5					5			Cont.			112	
OUTPUT Notes/Comments											5					5		Cont.			112	

1/ There is no inventory objective for ADMS Ashore. There are 5 major nodes (Hawaii, San Diego, Norfolk, Naples, and Bahrain) which are continually revisited to satisfy new fleet requirements

2/ 1 procurement in FY02 is a training unit.

3/ By end of FY04, ADMS Shore Infrastructure has been prepared for Shipboard integration into network. In FY05-FY07, shift to ADMS Afloat to transition ships to new shore infrastructure network. In FY08-09, continue shore capacity upgrades to meet emerging requirements.

4. Funding provided to include support for Shore Infrastructure Modernization (SIM).

P-1 SHOPPING LIST

MODIFICATION TITLE: Tactical Switching 1/
COST CODE PQ070/PQ776

MODELS OF SYSTEMS AFFECTED: Automated Digital Multiplexer System (ADMS) - Afloat

DESCRIPTION/JUSTIFICATION: Automated Network management capability which is fully compatible with switching technologies and in compliance with national and international standards.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

F	IN	Α	N	CI	ΑI	- 1	ΡĮ	Δ	N	ŀ	(\$	in	mill	ions)	

	<u>P</u>	Υ	<u>F</u>	/ 02	<u>F</u>	′ 03	<u> </u>	Y 04	<u>F</u>	Y 05	<u>F`</u>	Y 06	<u>F</u>	<u>′ 07</u>	FY	′ 08	FY	′ 0 <u>9</u>	<u></u>	<u>C</u>	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity																						
Installation Kits Installation Kits Nonrecurring																						
Equipment		0.000	0	0.000	0	0.000	0	0.000	46	10.360	43	10.227	41	9.763						Cont.	130	30.4
Equipment Nonrecurring																					0	0.0
Engineering Change Orders																					0	0.0
Data Training Equipment																					0	0.0
Production Support		0.000		0.000		0.000		0.000		0.532		0.499		0.509						Cont.	0	1.5
Other (DSA)		0.000		0.000		0.000		0.000		0.245		0.237		0.207						00.11.	0	0.7
Interm Contractor Support																				ŀ	0	0.0
Installation of Hardware*	0	0.000	0	0.000	0	0.000	0	0.000	46	3.338	43	3.311	41	2.924	0	0.0	0	0.0		Cont.	130	9.6
PRIOR YR EQUIP	0	0.000																		ŀ	0	0.0
FY 00 EQUIP FY 01 EQUIP																				ŀ	0	0.0
FY 01 EQUIP FY 02 EQUIP			0	0.000																	0	0.0
FY 03 EQUIP			U	0.000	0	0.000															0	0.0
FY 04 EQUIP							0	0.000												ŀ	0	0.0
FY 05 EQUIP									46	3.338										ŀ	46	3.3
FY 06 EQUIP											43	3.316								ŀ	43	3.3
FY 07 EQUIP													41	2.929						ŀ	41	2.9
FY 08 EQUIP FY 09 EQUIP																				ŀ	0	0.0
FY TC EQUIP																				ŀ	0	0.0
TOTAL INSTALLATION COST		0.000		0.000		0.000		0.000		3.338		3.311		2.924		0.0		0.0		Cont.	130	9.6
TOTAL PROCUREMENT COST		0.000		0.000		0.000		0.000		14.475		14.274		13.403		0.0		0.0		Cont.		42.2
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	LEADTIM	E:	3 months			PRODU	CTION LE	ADTIME:		4 months		•					
CONTRACT DATES:							FY2003	:					FY2004:						FY2005:		Dec-04	
DELIVERY DATES:							FY2003	:					FY2004:						FY2005:		Apr-05	
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>′ 04</u> 3	4		1	<u>F</u>	<u>Y 05</u> 3	4		1	<u>FY</u> 2	<u>06</u> 3	4						
INPUT	0	•					•			25	21	='			22	21	=					
OUTPUT	0										25		2			22						
0011 01	Ü										23					22						
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	<u>′ 07</u> 3	4		1	<u>E</u> 2	<u>Y 08</u> 3	4		1	<u>FY</u> 2	<u>09</u> 3	4		TC			TOTAL	
INPUT			•		21	20	•			-	-	=			-	<u> </u>	=	0	=		130	
					۷1																	
OUTPUT Notes/Comments			21			21		20										0			130	

1/ For FY05 - FY07, ADMS Afloat equipment will be replaced to satisfy increased IT-21 information transfer needs

MODIFICATION TITLE: Shore Remote Control Systems (SRCS)/Element Management System -Ashore (EMS) 1/

COST CODE PQ075/PQ776

MODELS OF SYSTEMS AFFECTED: Various transmission media.

DESCRIPTION/JUSTIFICATION: Automates and remotely controls communications switching and RF equipment which eliminates manual operations.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THE WORLET LEWY. (\$\psi in inimions)											
	PY A	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TC 1	<u>Total</u>
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E											
PROCUREMENT:	1							ĺ		1	
Kit Quantity											
Installation Kits											
Installation Kits Nonrecurring											
Equipment	33 12.334	4 0 0.000	0 0.000	0 0.000	0 0.000	0 0.000	0 0.000			0 0.0	33 12.3
Equipment Nonrecurring											0 0.0
Engineering Change Orders											0 0.0
Data											0 0.0
Training Equipment											
Production Support	0.280	0.226	0.000	0.000	0.000	0.000	0.000			0.0	0 0.5
Other (DSA)											0 0.0
Interm Contractor Support											0 0.0
Installation of Hardware*	33 5.987	0.000	0 0.045	0.000	0.000	0.000	0.000	0.0	0.0	0.0	33 6.0
PRIOR YR EQUIP	33 5.987	•									33 6.0
FY 00 EQUIP											0 0.0
FY 01 EQUIP											0 0.0
FY 02 EQUIP		0 0.000									0 0.0
FY 03 EQUIP		0 0.000	0 0.045								0 0.0
FY 04 EQUIP			0 0.045	0 0.000							0 0.0
				0 0.000							
FY 05 EQUIP					0 0.000						0 0.0
FY 06 EQUIP						0 0.000					0 0.0
FY 07 EQUIP							0 0.000				0.0
FY 08 EQUIP											0 0.0
FY 09 EQUIP											0.0
FY TC EQUIP										0.0	0.0
TOTAL INSTALLATION COST	5.987	0.000	0.045	0.000	0.000	0.000	0.000	0.0	0.0	0.0	33 6.0
TOTAL PROCUREMENT COST	18.60	1 0.226	0.045	0.000	0.000	0.000	0.000	0.0	0.0	0.0	18.9
METHOD OF IMPLEMENTATION: AIT			STRATIVE LEADTIN		8	PRODUCTION LE		4 months			
merrios or min cementation.		7.5	011011112 22712111		_						
CONTRACT DATES:				FY2003:	N/A		FY2004:			FY2005:	
CONTRACT DATES.				1 12005.	INA		1 12004.			1 12005.	
DELIVERY DATES:				FY2003:	N/A		FY2004:			FY2005:	
DELIVERY DATES.				F12003.	IN/A		F12004.			F12005.	
		_	V 04		EV 0E			/ nc			
NOTALLATION COLUEDING	D) /	1 2	<u>Y 04</u>		FY 05 2 3			<u>/ 06</u>			
INSTALLATION SCHEDULE:	PY	12	3 4		2 3	4	1 2	3 4	_		
INPUT	33										
OUTPUT											
OUTPUT	33										
		E*	Y 07		FY 08		E\	<u>′ 09</u>			
INSTALLATION SCHEDULE:		1 2	3 4	4	2 3	4	1 2	3 4	TC		TOTAL 2/
INSTALLATION SCHEDULE.		1 2	3 4		2 3	4	1 2	3 4		_	TOTAL ZI
INPUT									0		33
INFUI									U		აპ
OUTPUT									0		33
0011 01									U		55

#### Notes/Comments

3/ Prior year quantity includes 16 SRCS units.

19 of 22

<sup>1/</sup> Production support in FY02 includes transition of formal training to CNET, closing out production and transitioning assets to ISEA and completing remaining logistics documentation for turn over to ISEA 2/ As a result of Navy decisions, this program will cease in FY02.

MODIFICATION TITLE: ISNS

COST CODE PQ007/PQ777

MODELS OF SYSTEMS AFFECTED: Integrated Shipboard Network System (ISNS)

DESCRIPTION/JUSTIFICATION: Provides modern, centrally managed, network systems to replace aging LAN systems for Battle Group (BG) and non-BG ships, submarines and embarking Marine Corp units.

FY 04

Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support.

FY 05

FY 06

FY 07

FY 08

FY 09

TC

Total

P-3A Exhibit

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	•	<u>F I</u>		1 02		103		04		05		1 00		1 07		00	. –	09		<u>C</u>		ılaı
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																						
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	207	131.9	39	26.172	41	30.483	64	77.023	30	34.051	100	117.377	20	23.367	35	41.663	55	62.217	Cont.	Cont.	591 0 0 0	544.2 0.0 0.0 0.0 0.0
Production Support		5.568		2.821		1.774		4.307		1.833		6.394		2.087		2.172		3.272		Cont.	0	30.2
Other (DSA)		22.287		1.448		3.554		4.100		1.800		6.287		1.200		2.200		5.458		Cont.	0	48.3
Interm Contractor Support																					0	0.0
Installation of Hardware*	199	149.6	43	23.767	38	17.763	50	33.201	51	33.787	100	73.765	20	15.088	35	27.311	55	43.537	Cont.	Cont.	591	417.9
PRIOR YR EQUIP	199	149.6																			199	149.6
FY 00 EQUIP																					0	0.0
FY 01 EQUIP			8	4.422																	8	4.4
			35		4	4.000																
FY 02 EQUIP			35	19.345		4.669	_														39	24.0
FY 03 EQUIP					34	13.094	7	4.648													41	17.7
FY 04 EQUIP							43	28.553	21	13.912											64	42.5
FY 05 EQUIP									30	19.875											30	19.9
FY 06 EQUIP											100	73.765									100	73.8
FY 07 EQUIP													20	15.088							20	15.1
FY 08 EQUIP															35	27.311					35	27.3
FY 09 EQUIP																	55	43.537			55	43.5
																	00	40.007	0	0	0	
FY TC EQUIP																			Cont.	Cont.		0.0
TOTAL INSTALLATION COST		149.6		23.8		17.8		33.2		33.8		73.8	<u> </u>	15.1		27.3		43.5		Cont.	591	417.9
TOTAL PROCUREMENT COST		309.3		54.2		53.6		118.6		71.5		203.8		41.7		73.3		114.5		Cont.		1040.6
METHOD OF IMPLEMENTATION: AIT				ADMINIS	TRATIVE	LEADTIM		2 months			PRODUC	CTION LEA			2 months							
CONTRACT DATES:							FY2003:		Nov-02				FY2004:		Nov-03				FY2005:		Nov-04	
DELIVERY DATES:							FY2003:		Jan-03				FY2004:		Jan-04				FY2005:		Jan-05	
				FY	04				FY	′ <u>05</u>				FY	06							
INSTALLATION SCHEDULE:	PY	_	1	2	3	4		1	2	3	4	_	1	2	3	4	_					
INPUT	280		7	15	15	13		6	15	15	15			40	30	30						
OUTPUT	280			15	15	20			17	17	17			30	35	35						
W071111710110011701117					07					<u>′ 08</u>				<u>FY</u>							TOT.	
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	-	1	2	3	4		TC	-		TOTAL	
INPUT				7	7	6			15	10	10			20	20	15		Cont.			591	
OUTPUT				5	7	8			10	15	10			15	20	20		Cont.			591	

### Notes/Comments

FY 02

FY 03

<sup>1/</sup> Total Quantity listed on this P-3A represent systems procured and installed, including refresh equipment, and is not an Inventory Objective. Program Continues Beyond FYDP.

<sup>2/</sup> Unit Costs increase substantially in FY04 and beyond due to the introduction of the A(V)1, A(V)2, and A(V)3 configurations, which provide more capability then previous ISNS systems.

FY 05

FY 06

FY 07

FY 08

FY 09

TC

Total

Joint Network Management System (JNMS)

FY 02 FY 03

COST CODE PQ021/PQ777

MODELS OF SYSTEMS AFFECTED: Joint Network Management System (JNMS)

DESCRIPTION/JUSTIFICATION: The Joint Network Management System (JNMS) is a COM, Commander, Joint Forces (CIF) joint communications planning and management system

FY 04

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment		0	0.000	0	0.000	6	5.026	1	1.272	1	1.430	2	1.703	2	1.859	2	1.882	Cont.	Cont.	14	13.2
Equipment Nonrecurring																				0	0.0
Engineering Change Orders																				0	0.0
Data																				0	0.0
Training Equipment			0.000		0.000		0.000		0.054		0.004		0.050		0.000		0.000		0	0	0.0
Production Support Other (DSA)			0.002		0.000		0.333		0.051		0.094		0.052		0.062		0.082		Cont.	0	0.7 0.0
Interm Contractor Support																				0	0.0
Installation of Hardware*		0	0.000	0	0.000	6	0.323	1	0.072	1	0.163	2	0.176	2	0.197	2	0.206	Cont.	Cont.	14	1.1
PRIOR YR EQUIP		0	0.000	0	0.000	0	0.323	'	0.072	'	0.103		0.170	2	0.197	2	0.200	COIII.	Cont.	0	0.0
FY 00 EQUIP																				0	0.0
FY 01 EQUIP																				0	0.0
FY 02 EQUIP		0	0.000																	0	0.0
FY 03 EQUIP			0.000	0	0.000															0	0.0
FY 04 EQUIP						6	0.323													6	0.3
FY 05 EQUIP								1	0.072											1	0.1
FY 06 EQUIP										1	0.163									1	0.2
FY 07 EQUIP												2	0.176							2	0.2
FY 08 EQUIP														2	0.197					2	0.2
FY 09 EQUIP																2	0.206			2	0.2
FY TC EQUIP																		Cont.	Cont.	0	0.0
TOTAL INSTALLATION COST			0.000		0.000		0.323		0.072		0.163		0.176		0.197		0.206		Cont.	14	1.1
TOTAL PROCUREMENT COST			0.002		0.000		5.682		1.395		1.687		1.931		2.056		2.088		Cont.		15.0
METHOD OF IMPLEMENTATION: AIT			ADMINIS	TRATIV	E LEADTI	ME:	2 months	6		PRODU	CTION LEA	ADTIME:		2 months	3						
CONTRACT DATES:						FY2003:		N/A				FY2004:		Apr-04				FY2005:		Nov-04	
CONTRACT DATES.						1 12005.		INA				1 12004.		Дрі-04				1 12005.		1404-04	
DELIVERY DATES:						FY2003:		N/A				FY2004:		Jun-04				FY2005:		Jan-05	
			_		Y 04					05					<u>′ 06</u>						
INSTALLATION SCHEDULE:	PY	1	2	3	4	-	1_	2	3	4	_	1	2	3	4	•					
INPUT	0			6				1					1								
INFOI	U			0				'					'								
OUTPUT	0				6				1					1							
								_					-								
INSTALLATION SCHEDULE:		1	<u>FY</u> 2	<u>' 07</u> 3	4		4	2 2	<u>Y 08</u> 3	4		1	2 FY	<u>09</u> 3	4		TC			TOTAL	
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### CLASSIFICATION

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			PRODUCTION RATI	E		PROCUREME	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
Procurements are made from COTS inventories.										
ISNS	Various					Various				

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST
ITEM NO.

P-21A Exhibit
ITEM NO.

### CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHE	ĒΤ			DATE				Februar	y 2004
APPROPRIATION/BUDGET ACTIVITY OP.N - BA2 COMMUNICATIONS & ELI			P-1 ITEM NOM BLI: 3057 Com	_	Under \$5M				SUBHEAD 52NU	
,	PY	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL
QUANTITY										
COST (in millions)		\$36.5	\$29.3	\$11.9	\$35.8	\$22.7	\$22.2	\$20.8		

### JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

HF TILT MECHANISMS - Devices to enable vertical whip antenna to be lowered to a horizontal position during flight operations. Beginning in FY04, this program transfers to BLI 3010 (Joint Tactical Radio System)

HIGH FREQUENCY RADIO GROUP (HFRG) BROADBAND - Will allow fully automated operation of the HF communications system. The system will reduce the number of topside antennas used, reduce electromagnetic interference and reduce manning requirements. Beginning in FY04, this program transfers to BLI 3010 (Joint Tactical Radio System)

DIGITAL WIDEBAND TRANSMISSION SYSTEM (DWTS) - UHF line of sight radio system, ship-to-ship and ship-to-shore communications required to support landing force systems. The current program procures DWTS for amphibious and flag ships only. LRIP procurements of low data rate DWTS (DWTS LDR) began in FY00.

INSTALLING AGENTS: Installation will be accomplished by alteration installation teams (AIT) from SPAWAR field activities.

EPLRS - Provides ship-to-shore line-of-sight communications backbone for digital comms supporting Marine or Army landing forces in a network in the UHF frequency band. Supports landing force command elements at Marine regiment or MEU to company, and Army brigade to company. Provides automated position reporting and movement control of both landing force and assault craft elements.

BATTLE FORCE EMAIL 66 - BFEM 66 provides a basic SMPT/POP3 data transfer capability between Allied/NATO/Coalition Afloat forces utilizing the HF Spectrum.

VIXS: Video Information Exchange System (VIXS) provides the Fleet with tactical video teleconferencing. The system provides multipoint secure Video Teleconferencing (VTC) between deployed carriers/large deck amphibs, Fleet Commander-in-Chief (CINCs), Chief of Naval Operations (CNO) and select Department of Defense (DOD) commands. Shipboard systems also provide connectivity to the Joint Worldwide Intelligence Communications System (JWICS) VTC system.

TMIP: Theater Medical Information Program - Maritime (TMIP-M) program is charged with deployment of both infrastructure and the software to support the theater requirements for healthcare and command and control (C2) activities: clinical, resources, logistics, decision support, etc. The development and release of TMIP software will be conducted incrementally and it will be based on GOTS medical software that is currently available in the military inventory. Software components selected for TMIP are: MAT, CHCS, DBSS, DMLSS, TRAC2ES, and other developed software meets the functionality of SAMS. Meanwhile, until TMIP is fully deployed in the fleet (est. FOC FY08), SAMS will be concurrently supported. Subsequent TMIP Block releases will follow. The TMIP-M will leverage IT-21 and NTCSS infrastructure components, Horizontal Integration efforts, as well as installation, logistics, and fleet support components.

### CLASSIFICATION

GET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	BLI: 3057 Communication Items	Under \$5M	52NU

PORTABLE RADIOS: Procures MultiBand Inter/Intra Team Radios (MBITR) for deploying ships and Navy Ground Forces (Naval Construction Forces, Naval Coastal Warfare Group elements, Naval Beach Groups, Navy Cargo-Handling and Port Operations Group, and others). No installation funding required. Procurement is needed to support Force Protection operations, especially with Joint forces.

COMBAT SURVIVOR EVADER LOCATOR (CSEL): The Combat Survivor Evader Locator (CSEL) Radio system provides U.S. combat forces with secure, encrypted, low probability of detection, two-way, over the horizon, near real time databurst communications with integral precise geopositioning; and non-secure, unencrypted line-of-site voice and beacon capability to support survival, evasion, and personnel recovery operation. This is a joint Program with the Air Force as lead. The User segment of the CSEL system is composed of a battery operated hand held radio (HHR) (AN/PRQ-7), a radio set adapter (RSA) (J-6431/PRQ-7), a GPS antenna and coupler, and a laptop CPU with software for loading the HHR (CSEL Planning Computer (CPC)). The HHR will weigh 32 ounces and is of comparable size to other portable SATCOM radios (8x3.5x1.75"). CSEL will require a key fill device and will have improved jam and spoofing resistance by incorporating the next-generation Selective Availability Anti-Spoofing Module (SAASM) GPS module. The HHR requires the "CSEL infrastructure" to be operational, including the Ground segment's Joint Search and Rescue Center (JSRC) workstation/software and the Over-The-Horizon (OTH) segment's UHF Base Station (UBS). This funding line procures CSEL user equipment for Navy special forces; funding for Navy/USMC aircrews is provided via a separate (NAVAIR) program. The production contract is issued as a joint, single lot/option procurements, with all services funding applied to the lot/option.

AN/SRC-55 HYDRA: Replaces all stovepipe wireless shipboard systems (DC WIFCOM, MOMCOM, PVPCS, FDCS) with an integrated system on all ship classes. It is a wireless digital voice and data communications system using COTS trunking technology and is capable of interfacing with PBX, Cellular and other RF systems. The system procurement and installation costs vary with ship class based on the number of channels and radios in the system. Installations are performed by AITs during pierside availabilities. The total number of HYDRA ships (187) is based on N6 POM 04 fielding plan initiatives. Funding for the HYDRA Program transitioned to NAVSEA from SPAWAR in FY00. HYDRA is zeroed in FY03-05 due to vertical program cuts implemented by N61 in support of emergent CINC requirements for IT-21 systems. The HYDRA ORD still applies as Navy requirement. Program remains executable due to simultaneous forward fit procurements and installations. Out year funding is critical in implementing National Telecommunications and Information Administration (NTIA) mandated changes to Navy Shipboard LMR systems by FY2008.

DDG 51 Class Force Protection equipment for Shipboard Wireless Communication System Enhancement, Land Mobile Radios and Emergency SATCOM Secure Radios: this provides DDGs 89-106 the NTIA approved DoD frequencies and narrow banding requirements directed by: DDG 51 Flight IIA Operational Requirement Document (ORD) - Secure communications capability; Navy decision coordination paper - NDCP S-0812-SL (Confidential), dtd 2/23/83; DEPSECDEF memo dtd 01 Aug 2001 directed LMRs to operate in the US military band of 380-399MHz; and USS COLE lessons learned.

### FY03 Congressional Add:

NU247: AN/UYQ-70 ILS for Network based ship Interior Secure Voice system (NAVSEA)

### FY04 Congressional Adds:

NIU244: Integrated Communication System for Aircraft Carriers and Command Ships: Funding will further integrate the USS Lincoln's command & control communication system and assess requirements of adding an Integrated Communication System on Aircraft Carriers and Command Ships (\$1.5M).

NU247: AN/UYQ-70 Secure Voice System (SVS) for Aircraft Carriers: Funding will enable procurement and installation of SVS parts and material to raise previously delivered pre-production units to the production level for carrier demonstrations (\$1.7M).

NU249: Shipboard Communication Upgrades: Funding will provide software/hardware upgrades to approximately 15 large Navy ships to improve security for Shipboard Systems in order to comply with certification requirements and ultimately, readiness (\$3M).

Exhibit P-40, Budget Item Justification Unclassified

COST ANALYSIS DATE
February 2004

APPROPRIATION ACTIVITY
OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT
BLI: 3057 Communication Items Under \$5M
52NU

			P	Υ		FY 20			FY 2004			FY 200	
COST		ID		TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NU013	HF Tilt Mechanism	Α	29	2,998									
NU016	HFRG Broadband	Α	33	41,478	1	4,555.0	4,555						
NU019	DWTS Block Upgrade (Block Bravo in FY02)	В	66	4,194									
NU019	EPLRS	В			9	200.7	1,806	13	286.1	3,719			
NU022	Battle Force Email 66	Α	145	4,043	13	42.5	553		47.4	237			0
NU022	BFEM 19.2 Kpbs Modem upgrade	Α						29	18.5	537	4	20.0	80
NU237	Portable Radios -Gen Purpose Handheld Radios		55	1,917	44	6.3	277	246	13.0	3,204	56	14.6	817
NU250	CSEL	В						162	11.3	1,828	352	10.3	3,622
NU239	VIXS	А	9	1666	3	82.7	248	8	90.5	724			
	VIXS SHIP		7	665	3		248	4		396			
	VIXS SHORE		2	1001			0	4		328			
NU240	TMIP (SAMS NT Upgrade)	Α	535	1922	14	69.1	968						
NU240	TMIP	Α						6	166.5	999	9	134.9	1,214
NU950	AN/UYQ-70 for IT21 *		3	7,585	26	310	8,049						
NU555	Production Support						4,532			2,410			2,005

EPLRS: FY04 unit cost increases due to increase in initial ILS and 11.X upgrade requirements

BFEM: FY04-06 includes procurement of 19.2 Kbps modem upgrade to existing systems.

Portable Radios: Various types of radios are procured. Unit cost depends on configuration of radio. Unit cost is an average.

CSEL: The Unit Cost is NOT the actual individual cost of a single CSEL HHR - it is the total hardware cost computed by dividing the total yearly hardware cost by the number of radios procured.

TMIP: Unit Cost for TMIP is an average cost for the year of total costs divided by number of ships deploying TMIP. Actual unit costs vary by ship class.

Exhibit P-5, Budget Item Justification Unclassified

	COST ANALYSIS								DATE			Feb-04	
	COST ANALYSIS											reb-04	
	IATION ACTIVITY						NOMEN				SUBHE	AD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIF	PMENT	Ī			BLI: 305	7 Commi	unicatio	on Items	Under \$5M	52NU		
				PY		FY 200	3		FY 200	)4		FY 2005	
COST	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	ID	O=1/	TOTAL	071/	UNIT	TOTAL	O=1/	UNIT	TOTAL	071	UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	INSTALLATION			76,488			10,986			3,286			1,557
NU777	FMP			69,681			9,382			2,459			1,427
NU777	DSA			5322			1508			614			130
NU777	NON-FMP			1,486			96			213			0
	Total SPAWAR CONTROL						31,974			16,944			9,295
NU246* NU247* NU249*	Integrated Communication System COTS Software for ON-201 Secure Voice System AN/UYQ-70 ILS for ship Secure Voice System Shipboard Communications Upgrade			3,400 8,500			4,500			1,500 1,700 3,000			
<b>NU245</b> NU245	HYDRA - NAVSEA HYDRA FMP Installation			2,460 1,319	0	0	0 0	0	0	0	•	0	0 0
	DDG 51 Class Force Protection DDG 51 Class Force Protection FMP Installation							7	240	1,681 4,510	3	249	748 1,878
	Total NAVSEA CONTROL						4,500			12,391			2,626
	CONSOLIDATED CONTROL						36,474			29,335			11,921

<sup>\*</sup> Congressional add

Exhibit P-5, Budget Item Justification Unclassified

#### A. DATE PROCUREMENT HISTORY AND PLANNING Feb-04 SUBHEAD B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT BLI: 3057 Communication Items Under \$5M 52NU CONTRACTOR CONTRACT RFP DATE SPECS DATE COST **ELEMENT OF COST** FY ISSUE **AWARD** OF FIRST QTY UNIT **AVAILABLE** REVISIONS AND METHOD LOCATION LOCATION CODE & TYPE OF PCO DATE DATE Delevery COST NOW AVAILABLE NU016 HFRG Broadband 03 HARRIS Corp, Rochester NY FFP/O **SPAWAR** N/A Sep-03 Nov-04 1 4.555.0 YES NU019 EPLRS SSC CHASN 04 Various IDIQ N/A Jan-04 .lun-04 13 286.1 YES NU022 Battle Force Email 04 DTDI / Rockwell / Harris FFP/O **SPAWAR** N/A Dec-03 Jan-04 5 47.4 YES NU022 BFEM 19.2 Kpbs Modem upgrade 04 DTDI / Rockwell / Harris FFP/O **SPAWAR** N/A Dec-03 Jan-04 29 18.5 YES NU022 BFEM 19.2 Kpbs Modem upgrade 05 N/A DTDI / Rockwell / Harris FFP/O **SPAWAR** 4 YES Nov-04 Dec-04 20.0 NU237 Portable Radios - General Purpose Handheld Radios <sup>3</sup> 03 HARRIS Corp, Rochester NY N/A YES FFP **SPAWAR** Apr-04 May-04 44 6.3 NU237 Portable Radios - General Purpose Handheld Radios /3 04 N/A YES HARRIS Corp, Rochester NY FFP **SPAWAR** Apr-04 May-04 246 13.0 NU237 Portable Radios - General Purpose Handheld Radios / 05 FFP **SPAWAR** 56 YES HARRIS Corp, Rochester NY N/A Nov-04 Dec-04 14.6 NU250 CSEL / 2 04 FFP YES AFMS/SMC 162 Boeing Company, The N/A Mar-04 Dec-04 11.3 NU250 CSEL / 2 05 FFP AFMS/SMC 352 YES Boeing Company, The N/A Dec-04 Sep-05 10.3 NU239 VIXS 04 SSC CHS WX **SPAWAR** N/A Dec-03 Mar-04 8 90.5 YES NU240 TMIP /1 04 SSC CHS/CHAR WX SSC CHS/CHAR N/A Nov-03 Jan-04 6 166.5 YES NU240 TMIP /1 05 SSC CHS/CHAR WX SSC CHS/CHAR N/A Nov-04 Jan-05 9 134.9 YES NU244 Integrated Communication System 04 FFP SSC Charleston YES L3 Communciations Jun-04 Sep-04 1 1,500 NU247 AN/UYQ-70 for Secure Voice System Lockheed-Martin, Eagan, Minnesota FFP Wash DC Aug-03 Feb-04 4 Var NU247 AN/UYQ-70 for Secure Voice System Lockheed-Martin, Eagan, Minnesota FFP Wash DC Mar-04 Sep-04 1 Var NU249 Shipboard Communications Upgrade 04 FFP SSC Charleston YES Avaya Mar-04 Mar-04 15 200 NU248 DDG 51 Class Force Protection 04 Motorolla - Sphaumberg, Illinois **GSA** NSWC Crane N/A Oct-03 Jan-04 7 240.1 YES NU248 DDG 51 Class Force Protection 05 Motorolla - Sphaumberg, Illinois GSA **NSWC Crane** N/A Oct-04 Jan-05 3 249.3 YES

### D. REMARKS

Exhibit P-5a, Procurement History and Planning Unclassified Classification

<sup>1/</sup> TMIP: Unit Cost for TMIP is an average cost for the year of total costs divided by number of ships deploying TMIP. Actual unit costs vary by ship class.

<sup>2/</sup> CSEL: The Unit Cost is NOT the actual individual cost of a single CSEL HHR - it is the total hardware cost computed by dividing the total yearly hardware cost by the number of radios procured.

<sup>3/</sup> Portable Radios: Various types of radios are procured. Unit cost depends on configuration of radio. Unit cost is an average.

<sup>4/</sup> Portable Radios: FY03 and FY04 procurements pending approval of JTRS waiver

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS Feb-04

COST CODE MODELS OF SYSTEMS AFFECTED: NU013

DESCRIPTION/JUSTIFICATION:

HF TILT MECHANISMS Installation on ships to allow vertical whip antennas to be lowered to a horizontal position during flight operations.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	Prior Yrs	FY	02	FY (	03	<u> </u>	Y 04	FY 05	FY 06	FY 07	FY 08	FY 09	TC	<u>T</u> -	<u>otal</u>
	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
RDT&E PROCUREMENT:															
Kit Quantity Installation Kits															
Installation Kits Nonrecurring															
Equipment	27 2.7	2	0.3	0	0.0									29	3.0
Equipment Nonrecurring															
Engineering Change Orders															
Data															
Training Equipment  Production Support	1.1		0.6		0.3										2.0
Other (DSA)	1.1		0.0		0.0										2.0 0.0
Interm Contractor Support			0.0		0.0										0.0
Installation of Hardware	13 1.2	. 0	0.0	0	0.0	16	See Note							13	1.2
PRIOR YR EQUIP	13 1.2					14	See Note							13	1.2
FY 02 EQUIP						2	See Note							2	0.0
FY 03 EQUIP														0	0.0
FY 04 EQUIP														0	0.0
FY 05 EQUIP														0	0.0
FY 06 EQUIP														0	0.0
FY 07 EQUIP FY 08 EQUIP														0	0.0
FY 08 EQUIP FY 09 EQUIP														0	0.0
FY TC EQUIP														0	0.0
TOTAL INSTALLATION COST	1.2	:	0.0		0.0		See Note	0.0	0.0	0.0	0.0	0.0	0.0		1.2
TOTAL PROCUREMENT COST	5.0		0.9		0.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.2
METHOD OF IMPLEMENTATION:		•	,		'		'		ADMINISTRATIVE	LEADTIME:	5 mos	PRODU	CTION LEADTIM	E:	12 mos
	CONTRACT DATE		FY 2002:		N/A		FY 2003:	N/A	FY 2004		FY 2005				
	DELIVERY DATES	i:	FY 2002:	Ν	N/A		FY 2003:	N/A	FY 2004	:	FY 2005	:			
			FY					FY 05		FY					
INSTALLATION SCHEDULE:	PY	1	2	3	4		1	2 3	4	1 2	3 4				
INPUT	13	See Note													
OUTPUT	13														
			FY	07				FY 08			FY 09				
INSTALLATION SCHEDULE:		1	2	3	4		1	<u>FY 08</u> 2 3	4	1 2	FY 09 3 4	TC	TOTAL		
INPUT													13		
OUTPUT													13		

Notes/Comments
1/ Beginning in FY04, HF Tilt program transferrs to BLI 3010 (Ship Tact Comm). FY04 install funding reflected under BLI 3010.

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS Feb-04

COST CODE NU016

MODELS OF SYSTEMS AFFECTED: HIGH FREQUENCY RADIO GROUP

DESCRIPTION/JUSTIFICATION: Provides for fully automated operation of the High Frequency Communications System.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)	Prior Yr	'S	EV	02	E,	Y 03	-	Y 04	EV	05	EV	06	EV	′ 07	ΕV	7 08	l F	Y 09	1 .	TC	т	otal
	Qty	<u> </u>	Qty	<u>02</u> \$	Qty	<u>1 03</u> \$	l Qtv	\$	Qty	<u>55</u> \$	Qty	<u>50</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	<u>10</u> \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	ally	•	4.9		<u>u,</u>	<u> </u>	4.9	Ψ	a.y	•	4.9	<u> </u>	4.0	<u> </u>	a.y	Ψ	Q.y	<u> </u>	Q.,	Ψ	<u> </u>	
Equipment Equipment Nonrecurring - HF ALE upgrade Equipment Nonrecurring - VRC104  Data  Training Equipment	33	41.5	0	0.0	1	3.5 0.5 0.6															34	45.0 0.5 0.6
Praining Equipment  Production Support  Other (DSA)  Interm Contractor Support		1.4 0.7		1.3 0.5		0.8 0.3																3.5 1.5
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP	31 31	41.6 41.6	1	2.2 2.2	0	0.2	1	Note 1													33 32	44.0 43.8
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP					0	0.2	1	Note 1														0.2
TOTAL INSTALLATION COST		41.6		2.2		0.2		Note 1		0		0		0		0		0		0.0		44.0
TOTAL PROCUREMENT COST		85.2		4.0		5.8		0		0		0		0		0		0		0.0		94.9
METHOD OF IMPLEMENTATION:											ADMINIS	TRATIVE	LEADTIN	ΛE:		2 mos		PRODUC	CTION L	EADTIME:		12 mos
	CONTR	RACT DATE	ES:			FY 2002:		N/A	F	Y 2003:		Sep-03		FY 2004:		N/A		FY 2005:		N/A		
	DELIVE	ERY DATES	S:			FY 2002:		N/A	F	Y 2003:		Nov-04		FY 2004:		N/A		FY 2005:		N/A		
INSTALLATION SCHEDULE:	PY				1	<u> </u>	<u>Y 04</u> 3	4 See Note		1	<u>FY (</u>	<u>05</u> 3	4	-	1	2 2	<u>Y 06</u> 3	4	=			
INPUT	32							00011010														
OUTPUT	32																					
INSTALLATION SCHEDULE:					1	2	<u>Y 07</u> 3	4		1	2 <u>FY (</u>	08 3	4	-	1	2	FY 09 3	4	=	TC		<u>TOTAL</u>
INPUT																						32
OUTPUT																						32

### Notes/Comments

<sup>1/</sup> Beginning in FY04, HFRG program transfers to BLI 3010 (JTRS). Installation of FY03 procurements are budgeted under BLI 3010 (Ship Tact Comm)

<sup>2/</sup> The installation of the FY01 procurement of a 12 KW system was cancelled due to ship being decommissioned. This asset is being converted into two HFRG (8kw & 4kw) systems in FY04 and is reflected under BLI 3010.

<sup>3/</sup> FY03 procures one (4 kw) system which requires a 12-16 month production leadtime. Installation is reflected under BLI 3010 (Ship Tact Comm).

<sup>4/</sup> FY03 install includes installation of the HF ALE upgrades.

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS Feb-04

COST CODE

NU019

MODELS OF SYSTEMS AFFECTED:

DWTS BLOCK UPGRADE

DESCRIPTION/JUSTIFICATION: UHF Line-Of-Sight radio system, ship to ship and ship to shore communications.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THAT COME I ENTER (\$ III IIIIII III)	Prior Y	<u>s</u>	<u>F</u>	Y 02	<u>FY</u>	<u>′ 03</u>	<u>F`</u>	<u> 4 04 </u>	FY	<u>05</u>	FY	06	FY	07	FY	80	FY	09	]	<u>-C</u>	<u>T</u> 6	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	39	3.5	27	0.7	0	0.0													15	8.0	81	5.0
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support		1.8		1.2		0.7														0.5		4.2
Other (DSA)		0.3		0.5		0.3														0.1		1.1
Interm Contractor Support																						
Installation of Hardware	35	2.5	11	0.9	20	3.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.5	81	5.0
PRIOR YR EQUIP	35	2.5	4	0.1																	39	2.6
FY 02 EQUIP			7	8.0	20	3.6															27	4.5
FY 03 EQUIP																					0	0.0
FY 04 EQUIP																					0	0.0
FY 05 EQUIP																					0	0.0
FY 06 EQUIP																					0	0.0
FY 07 EQUIP																					0	0.0
FY 08 EQUIP																					0	0.0
FY 09 EQUIP																					0	0.0
FY TC EQUIP																			15	0.5	15	0.5
TOTAL INSTALLATION COST		Note 1		0.9		3.6		0.0		0.0		0.0		0.0		0.0	,	0.0	·	0.5		5.0
TOTAL PROCUREMENT COST		5.6		3.2		4.6		0.0		0.0		0.0		0.0		0.0		0.0		1.8		15.3
METHOD OF IMPLEMENTATION:	_										ADMIN	STRATI	VE LEADTIN	ΛE·		2 mos		PROD	JCTION	LEADTI	ME.	9 mos

 CONTRACT DATES:
 FY 2003:
 N/A
 FY 2004:
 N/A
 FY 2005:
 N/A

 DELIVERY DATES:
 FY 2003:
 N/A
 FY 2004:
 N/A
 FY 2005:
 N/A

 $\frac{\text{FY 04}}{\text{INSTALLATION SCHEDULE:}} \qquad \frac{\text{FY 05}}{1} \qquad \frac{\text{FY 05}}{2} \qquad \frac{\text{FY 06}}{3} \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{2}{3} \qquad \frac{3}{4} \qquad \qquad \frac{1}{2} \qquad \frac{1}$ 

INPUT 66

OUTPUT 66

INSTALLATION SCHEDULE: 1 2 3 4 1 2 3 4 1 2 3 4 TC TOTAL
INPUT

OUTPUT

15 81

Notes/Comments

MODIFICATION TITLE: SHIP TACTICAL COMMUNICATIONS Feb-04

COST CODE NU019 MODELS OF SYSTEMS AFFECTED: **EPLRS** 

UHF Line-Of-Sight radio system, ship to ship and ship to shore communications. DESCRIPTION/JUSTIFICATION:

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ In millions)	Prior Yrs		ΕV	′ 02	E.	<u>/ 03</u>	FY (	<b>n</b> 4	F	Y 05	FY	06	FY 07		FY	าล	FY (	19	-	<u>rc</u>	-	<u>「otal</u>
	Qty	\$	Qty	<u> </u>	Qty	\$	Qty	<u>5                                    </u>	Qty	\$	Qty	\$		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring EPLRS RACKS Engineering Change Orders		•		•	9	1.8	13	3.7		·		•		*		*		*	8	2.0	30	7.5
Data Training Equipment Production Support Other (DSA) Interm Contractor Support						1.2 0.2		0.9 0.4		0.9 0.0										1.0 0.1		3.9 0.7
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP	0	0.0	0	0.0	6	1.0	9 3 6	1.6 0.5 1.0	7	1.0									8	1.9	30 0 0 9	5.5 0.0 0.0 1.5 2.1
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP																					0 0 0 0	0.0 0.0 0.0 0.0 0.0
FY TC EQUIP																			8	1.9	8	1.9
TOTAL INSTALLATION COST		0.0		0.0		1.0		1.6		1.0		0.0		0.0		0.0		0.0		1.9		5.5
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		0.0	<u> </u>	0.0		4.2		6.5		1.9	A DAMAINIC	0.0	/E LEADTIME	0.0		0.0 3 mos		0.0	JCTION LE	5.0		17.6 3-9 mos
METHOD OF IMPLEMENTATION.											ADMINIS	SIRAII	VE LEAD I IIVIE	=:		3 11108		PRODU	JCTION LE	ADTIME:		3-9 11108
	CONTRA	CT DAT	ES:				FY 2002:		N/A		FY 2003	:	Jan-03		FY 2004	:	Jan-04		FY 2005:		N/A	
	DELIVER	Y DATE	S:				FY 2002:		N/A		FY 2003	:	Jul-03		FY 2004	:	Jun-04		FY 2005:		N/A	
INSTALLATION SCHEDULE:	PY		1	2	FY 04 3	4	_	1	2 2	<u>/ 05</u> 3	4		1	<u>FY (</u>	<u>3</u>	4	•					
INPUT	6			3		6		7														
OUTPUT	6			3		6		7														
					EV 07	-			V 08				EV.	10								
INSTALLATION SCHEDULE:			1	2	FY 07 3	4	_	1	Y 08 2	3	4		1 FY 0	2	3	4	_	TC	_	TOTAL		
INPUT							_					•					•	8	-	30		
OUTPUT																		8		30		

Notes/Comments

FY04 unit cost increases due to increase in initial ILS and 11.X upgrade requirements

COST CODE

MODIFICATION TITLE: Battle Force Email 66 Feb-04

MODELS OF SYSTEMS AFFECTED: BFEM

NU022

DESCRIPTION/JUSTIFICATION:

BFEM 66 provides a basic SMPT/POP3 data transfer capability between

Allied/NATO/Coalition Afloat forces utilizing the HF Spectrum.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(, , , , , , , , , , , , , , , , , , ,	Prior Y	<u>s</u>	<u>E</u>	Y 02	FY	03	FY	′ 0 <u>4</u>	FY	05	FY	′ 06	FY 07		FY C	8	FY (	9		<u>гс</u>	To	otal .
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty :	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	117	3.0	28	1.1	13	0.6	5	0.2											200	9.1	363	14.0
Equipment Nonrecurring																						
Engineering Change Orders- BFEM 19.2 Kpbs Mo	dem upgr	ade					29	0.5	4	0.1	45	0.9							282	5.6	360	7.1
Data																						
Training Equipment																						
Production Support		1.4		0.7		0.7		0.5		0.2		0.4								3.9	0	7.9
Other (DSA)		8.0		0.4		0.3		0.1												3.0	0	4.6
Interm Contractor Support																						
Installation of Hardware	114	3.5	31	1.4	13	0.9	5	0.2											200	10.6	363	16.6
PRIOR YR EQUIP	114	3.5	3	0.2																	117	3.7
FY 02 EQUIP			28	1.2																	28	1.2
FY 03 EQUIP					13	0.9															13	0.9
FY 04 EQUIP							5	0.2													5	0.2
FY 05 EQUIP																					0	0.0
FY 06 EQUIP																					0	0.0
FY 07 EQUIP																					0	0.0
FY 08 EQUIP																					0	0.0
FY 09 EQUIP																				40.0	0	0.0
FY TC EQUIP														_					200	10.6	200	10.6
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		3.5		3.7		0.9		0.2		0.0		0.0		.0		0.0		0.0		10.6 32.3		16.6 50.2
		8.6	ļ	3.7		2.5	ļ	1.5		0.3		1.2		.0	11.45	0.0	ļ	0.0	TION			
METHOD OF IMPLEMENTATION:												ADMINI	STRATIVE LE	:AD I	IIVIE: 3	mos	ŀ	RODUC	JION L	EADTIME	::	2 mos
	CONTE	RACT DA	TEC.				FY 200	٠	Nov-01		FY 200	١٥.	Oct-02		FY 2004:		Dec-03		FY 200	<del>.</del> .	Nov-04	
	CONTR	RACT DA	IES:				FY 200	12.	INOV-U I		F1 200	J3:	OCI-02		F 1 2004:		Dec-03		F 1 200	o.	NOV-04	
	DELIVE	RY DATI	EQ.				FY 200	12.	Dec-01		FY 200	13.	Dec-02		FY 2004:		Jan-04		FY 200	5·	Dec-04	
	DLLIVE	INI DAII	LO.				1 1 200	·Z.	Dec-01		1 1 200	<i>7</i> 5.	Dec-02		1 1 2004.		Jan-04		1 1 200	J.	Dec-04	
				FY	04				FY	05				FY	06							
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1 :	2 '	3	4						
into mee mon conebce.	<u> </u>					•					<u> </u>			_								
INPUT	158			5																		
OUTPUT	158			5																		
				<u>FY</u>	<u>′ 07</u>				FY	<u>08</u> 3				_	FY 09 3							
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4		1 :	2	3	4		TC	-	TOTAL		
INPUT																		200		363		
OUTPUT																		200		363		

Beginning in FY04, procurements will include ECPs to upgrade the existing systems to 19.2 Kbps. Unit price includes installation.

MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHIP INSTALLATION

COST CODE NU239

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

τ πο πτου τε τ ει πτ. (φ π. π. π. π. σ. σ.)	Prior Yrs		<u>′ 02</u>		Y 03	<u>FY</u>		FY			<u>′ 06</u>	FY		FY		FY		<u>TC</u>	_ 1		otal _
RDT&E	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	53 2.5	7	0.7	3	0.2	4	0.4			4	0.3							cont.		71	4.1
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Production Support	0.2		0.5		0.4		0.1				0.1										1.3
Other (DSA) Interm Contractor Support	0.4	·	0.1		0.1		0.1				0.1										0.7
Installation of Hardware	49 2.4	. 9	0.4	5	0.5	4	0.3			4	0.4							cont.		71	3.9
PRIOR YR EQUIP	49 2.4		0.2		0.0	'	0.0			_	0.4							COIII.		53	2.5
FY 02 EQUIP	10 2	5	0.2	2	0.2															7	0.4
FY 03 EQUIP				3	0.3															3	0.3
FY 04 EQUIP						4	0.3													4	0.3
FY 05 EQUIP																				0	0.0
FY 06 EQUIP										4	0.4									4	0.4
FY 07 EQUIP																				0	0.0
FY 08 EQUIP																				0	0.0
FY 09 EQUIP FY TC EQUIP																		cont.		0	0.0 0.0
TOTAL INSTALLATION COST	2.4		0.4		0.5		0.3		0		0.4		0		0		0	COIII.	0	U	3.9
TOTAL INSTALLATION COST	5.5		1.6		1.1		1.0		0.0		0.4		0		0		0		0		10.1
METHOD OF IMPLEMENTATION:	0.0	· I	1.0			ı	1.0	I		ADMINISTI		ADTIME:		ı	1 mos	PF		N LEADTIME:			3 mos
	CONTRACT	DATES:		FY 2002	:	Dec-01		FY 2003:		Dec-02		FY 2004:		Dec-03		FY 2005:		N/A			
	DELIVERY	DATES:		FY 2002	:	Mar-02		FY 2003:		Mar-03		FY 2004:		Mar-04		FY 2005:		N/A			
INSTALLATION SCHEDULE:	PY		1	2 <u>E</u>	<u>Y 04</u> 3	4		1	2 <u>E</u>	FY 05 3	4			1	2 <u>F</u>	<u>Y 06</u> 3	4				
INSTALLATION SOFILESCE.	<u></u>						•			<u> </u>		_		<u>'</u>				=			
INPUT	63			2	2										2	2					
OUTPUT	63				2	2										2	2				
INSTALLATION SCHEDULE:				E	<u>Y 07</u>				_ E	FY 08 3					FY 09						
INPUT			1	2	3	4		1	2	3	4	_	1	2	3	4		TC		<u>TOTAL</u>	
OUTPUT																		cont.		71	
																				71	

Exhibit P-3a, Individual Modification Program Unclassified Classification

MODIFICATION TITLE: VIXS (Video Information Exchange System)-SHORE INSTALLATION COST CODE

NU239

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Provides multifunctional information exchange systems capable of interactive imagery and video teleconferencing.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	- · · · ·		_															_	
	Prior Yr			Y 02		<u>′ 03</u>	FY (		<u>FY (</u>			<u>/ 06</u>	FY 07	FY 08	FY 09	<u>TC</u>			<u>otal</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty	\$ Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	14	1.5	2	1.0	0	0.0	4	0.3	0	0.0	1	0.2				cont.		21	3.0
Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP	14 14	1.4 1.4	1	0.05 0.05	1	0.1 0.1	4	0.2	0	0.0	1	0.1				cont.		21 14 2	1.9 1.4 0.1
FY 03 EQUIP																		0	0.0
FY 04 EQUIP							4	0.2										4	0.2
FY 05 EQUIP									0	0.0								0	0.0
FY 06 EQUIP											1	0.1						1	0.1
FY 07 EQUIP																		0	0.0
FY 08 EQUIP																		0	0.0
FY 09 EQUIP																		0	0.0
FY TC EQUIP																cont.		0	0.0
TOTAL INSTALLATION COST		1.4		0.05		0.1		0.2		0.0		0.1	0.0	0.0		0.0	0.0		1.9
TOTAL PROCUREMENT COST		1.4		1.1		0.1		0.5		0.0		0.3	0.0	0.0	) 0	0.0	0.0		4.9
METHOD OF IMPLEMENTATION:											ADMIN	IISTRAT	IVE LEADTIME	: 1 m	os Pl	RODUCTION	l LEAD	OTIME:	3 mos
	CONTR	ACT DA	TES:		FY 2002	:	Dec-01		FY 2003:		N/A		FY 2004:	Dec-03	FY 2005:	N/A			
	DELIVE	RY DAT	ES:		FY 2002	:	Mar-02		FY 2003:		N/A		FY 2004:	Mar-04	FY 2005:	N/A			
					-					E) ( 0	_			51/00					
INSTALLATION SCHEDULE:	DV			1	2 2	<u>/ 04</u> 3	4		1	<u>FY 0</u> 2	<u>5</u> 3	4	4	<u>FY 06</u> 2 3	4				
INSTALLATION SCHEDULE.	PY					3	4	•			3	4	- <u>-</u>	2 3	4				
INPUT	16				2	2								1					
OUTPUT	16					2	2							1					
0011 01	10					2	2							,					
INSTALLATION SCHEDULE:					2 <u>FY</u>	<u>′ 07</u>				<u>FY 0</u> 2	8			2 3	<u>)9</u>				
INPUT				1	2	3	4		1	2	3	4	1_	2 3	4	TC	-	TOTAL	
INPUT																cont		21	
OUTPUT																cont		21	
Notes/Comments																			

Notes/Comments

FY02 Shore cost increase due to the one-time purchase of VTC equipment for the Pentagon

Exhibit P-3a, Individual Modification Program Unclassified Classification

MODIFICATION TITLE: TMIP

COST CODE NU240

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: TMIP is the infrastructure and software to support Navy and Marine Corps requirements for healthcare and C2 activities:

clinical resources, logistics, decision support, etc.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

, ,	Prior Y	rs	<u>FY</u>	02	FY	03	FY	′ 0 <u>4</u>	FY	<u>05</u>	F	<u> 7 06</u>	FY	07	FY	08	FY	09		TC	To	tal_
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	532	1.3	3	0.7	14	1.0	6	1.0	9	1.2	9	1.2	5	1.0	5	1.0	5	1.0	240	42.0	Note 1 828	51.3
Training Equipment Production Support Other (DSA) Interm Contractor Support				0.1		0.0		0.1 0.1		0.1 0.1		0.1 0.1		0.1 0.0		0.1 0.0		0.1 0.0		2.9 2.4		3.5 2.8
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	532 532	0.6 0.6	3	0.2	14	1.1	6	0.3	9	0.4	9	0.4	5	0.3	5	0.3	5	0.3	240	13.4	828 532 3 14 6 9 5 5 5	17.4 0.6 0.2 1.1 0.3 0.4 0.4 0.3 0.3 0.3 13.4
TOTAL INSTALLATION COST		0.6		0.2		1.1		0.3		0.4		0.4		0.3		0.3		0.3		13.4		17.4
TOTAL PROCUREMENT COST		1.8		0.9		2.1		1.4		1.8		1.7		1.5		1.5		1.5		60.8		74.9
METHOD OF IMPLEMENTATION:											ADMIN	NISTRAT	TIVE LEAD	TIME:		2 mos		PRODU	CTION LE	ADTIME:		2 mos
	CONTR	RACT DA	TES:				FY 200	2:	Nov-01		FY 200	03:	Feb-03		FY 2004:		Nov-03		FY 2005:		Nov-04	
	DELIVE	ERY DAT	ES:				FY 200	2:	Jan-02		FY 200	03:	Apr-03		FY 2004:		Jan-04		FY 2005:		Jan-05	
INSTALLATION SCHEDULE:	PY		1	<u>F</u> 2	<u>Y 04</u> 3	4	_	1	<u>FY 0</u> 2	<u>)5</u> 3	4	-	1	<u>FY</u> 2	<u>′ 06</u> 3	4	-					
INPUT	549			2	2	2			3	3	3			3	3	3						
OUTPUT	549			2	2	2			3	3	3			3	3	3						
INSTALLATION SCHEDULE:			1	2	<u>Y 07</u> 3	4	_	1	2 FY 0	3	4	-	1	2	FY 09 3	4	<u>-</u>	TC	<u>-</u>	<u>TOTAL</u>		
INPUT				1	2	2			1	2	2			1	2	2		240		828		
OUTPUT				1	2	2			1	2	2			1	2	2		240		828		

The Inventory Objective for TMIP-M is 296. In FY00 and FY01, quantities reflect procurement of 532 SAMS-NT hardware/software

upgrades to the legacy system. None of these units are part of the Inventory Objective for TMIP-M.

For FY02 and out, quantities reflect number of Inventory Objective ships receiving TMIP. Therefore, Total SAMS-NT units = 532;

Total TMIP units = 296.

Unit cost for TMIP is computed by dividing total by number of ships deploying TMIP.

Exhibit P-3a, Individual Modification Program Unclassified Classification

MODIFICATION TITLE: AN/UYQ-70 for IT21

COST CODE NU950

MODELS OF SYSTEMS AFFECTED: IT21 C4ISR Equipment

DESCRIPTION/JUSTIFICATION: AN/UYQ-70 for IT-21 Block 1 Upgrade C4ISR Computing Equipment Procurement (SPAWAR)

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)	Prior Yrs		E.	Y 02	FY	n3	FY	04	FY	05	FY 06	FY	07	FY	08	FY	nα		<u>TC</u>	т	otal
	Qty	<u>-</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	<u>55</u> \$	Qty \$	Qty	<u>57</u> \$	Qty	\$	Qty	\$	Qty	<u>10</u> \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment	<u> </u>	<u> </u>	3	7.6	26	8.0	a.y	•	a.y	•	all the second	a.y	Ψ	a.y	<u> </u>	a.,		u.y		29	15.6
Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP			3	0.0	26	0.0 0.3 0.5														29 0	0.0 0.3 0.5 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP			3	See Note	26	0.5														3 26 0 0 0 0	0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP			↓																	0	0.0
TOTAL INSTALLATION COST		0.0	<u> </u>	0.0		0.5		0.0		0.0	0.0		0.0		0.0		0.0		0.0		0.5
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		0.0	Ь	7.6		8.8		0.0		0.0	0.0 ADMINISTR	ΔΤΙ\/ΕΙΕΔΓ	0.0		0.0 2 mos		0.0 PROD	LICTIO	0.0 N LEADT	IME.	16.1 2 mos
METHOD OF IMPLEMENTATION.											ADMINIOTA	ATIVE CEAL	JIIIVIL.		2 11103		TROD	001101	LLAD	IIVIL.	2 11103
	CONTRA	ACT DA	.TES:				FY 2002	2:	Nov-01		FY 2003:	May-03	3	FY 2004	l:			FY 200	)5:		
	DELIVE	RY DAT	ES:				FY 2002	2:	Jan-02		FY 2003:	Jul-03		FY 2004	l:			FY 200	)5:		
INSTALLATION SCHEDULE: INPUT OUTPUT	PY 29 29			1	2 <u>FY</u>	<u>04</u> 3	4		1	<u>FY 0</u> 2	9 <u>5</u> 3 4	_	1	<u>FY</u> 2	<u>06</u> 3	4					
INSTALLATION SCHEDULE: INPUT OUTPUT			1	2 2	<u>Y 07</u> 3	4		1	<u>FY 0</u> 2	<u>3</u>	4	1	2	<u>FY 09</u> 3	4		TC 0 0	-	TOTAL 29 29		

Notes/Comments

FY02 Congressional Language provided for procurement of Q-70 systems. Installations were funded with other program dollars.

Exhibit P-3a, Individual Modification Program Unclassified Classification

Notes/Comments

MODIFICATION TITLE: HYDRA (NAVSEA) Feb-04

COST CODE NU245

MODELS OF SYSTEMS AFFECTED: AN/SRC-55

DESCRIPTION/JUSTIFICATION: HYDRA is a wireless digital voice and data communications system using COTS trunking technology.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	Daine Vo		_		_		_		_		_		_		_					
	Prior Yrs Qty	<u>\$</u> \$	Qty	<u>/ 03</u> \$	Qty	<u>' 04</u> \$	Qty	<u>/ 05</u> \$	Qty	<u>Y 06</u> \$	Qty	<u>Y 07</u> \$	Qty	<u>Y 08</u> \$	Qty	<u>Y 09</u> \$	Qty	<u>rc</u> \$	Qty	Total \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Qty	<b></b>	Qıy	•	Qty	Φ	Qty	Ψ	Qiy	Ψ	Qty	Ψ	Qiy	Ψ	Qty	Ψ	Qiy	•	Qiy	•
Equipment* Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support	14	21.2	0	0.0	0	0.0	0	0.0	8	18.4	4	5.6	5	7.7	7	7.8	149	343.7	187	404.4
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP	14 12 2	5.1 4.4 0.7	0	0.0	0	0.0	0	0.0	5	4.3	6	5.3	5	3.4	8	3.6	149	111.0	187 12 2 0	132.8 4.4 0.7 0.0 0.0
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP							0	0.0	5	4.3	3	2.7 2.7	1 4	0.5 2.9	1 7	0.5 3.1			0 8 4 5 7	0.0 7.0 3.2 3.4 3.1
FY TC EQUIP TOTAL INSTALLATION COST		5.1		0.0		0.0		0.0		4.3		5.3		3.4		3.6	149	111.0 111.0	149	111.0 132.8
TOTAL INSTALLATION COST		26.3		0.0		0.0		0.0		22.7		10.9		11.2		11.4		454.7		537.2
METHOD OF IMPLEMENTATION:					I		I		STRATIVE	E LEADTIN	ΛE:		2 Month		PRODU	JCTION L	EADTIN		4 Months	
	CONTRA	ACT DA	TES:					FY 2003	:	N/A		FY 2004	:	N/A		FY 2005	5:	N/A		
	DELIVE	RY DAT	ES:					FY 2003	:	N/A		FY 2004	:	N/A		FY 2005	5:	N/A		
INSTALLATION SCHEDULE:	PY	_		1	2	<u>F</u> `	<u>Y 04</u> 4	_	1	<u>FY 0</u> 2	<u>)5</u> 3	4		1	<u>F)</u> 2	<u>/ 06</u> 3	4	_		
INPUT	14	4													3	2				
OUTPUT	14	4														2	3			
					<u>F</u>	Y 07				<u>FY 0</u> 2	<u> 18</u>				<u>E</u> )	<u>/ 09</u>				
INSTALLATION SCHEDULE:				1	2	3	4	_	1			4		1	2	3	4	TC		TOTAL
INPUT				3	3				1	2	2			1	5	2		149		187
OUTPUT					3	2	1			1	2	2			1	4	3	149		187

MODIFICATION TITLE:

DDG 51 Class Force Protection Shipboard Wireless Communications System (NAVSEA)

NU248

COST CODE
MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION:

DDG 51 Class Force Protection Equipment/Shipboard Wireless Comms enhancement, LMR and emergency SATCOM Secure Radios

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	Prior Yrs		ΕV	Ý 03	ΕV	′ 04	FY	05	EV	06	ΕV	<i>(</i> 07	FY	าย	FY	na	<u>T(</u>	_	-	Γotal
	Qty	<u>.</u> \$	Qty	\$	Qty	\$	Qty	<u>55</u> \$	Qty	<u>50</u>	Qty	\$	Qty	<u>50</u> \$	Qty	<u>55</u> \$	Qty	<u>-</u> \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment* Equipment Nonrecurring	0	0.0	0	0.0	7	1.7	3	0.7	3	0.8	3	0.8	2	0.5	0	0.0	0	0.0	18	4.4
Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware	0	0.0	0	0.0	7	4.5	3	1.9	3	1.9	3	1.9	2	1.3	0	0.0	0	0.0	18	11.5
PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP	0	0.0	0	0.0	7	4.5	3	1.9	3	1.9									0 0 0 7 3 3	0.0 0.0 0.0 4.5 1.9
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP TOTAL INSTALLATION COST		0.0		0.0		4.5		1.9		1.9	3	1.9	2	1.3	0	0.0	0	0.0	3 2 0 0	1.9 1.3 0.0 0.0
TOTAL INSTALLATION COST		0.0		0.0		6.2		2.6		2.7		2.7		1.8	1	0.0		0.0		16.0
METHOD OF IMPLEMENTATION:		0.0	<u> </u>	0.0		0.2	I.		STRATIVE		ле:		1 Month	1.0	PRODUC		EADTIME		1 Month	10.0
	CONTRA	ACT DA	TES:				FY 2003:		N/A		FY 200	14:	Oct-03		FY 2005		Oct-04			
	DELIVER	RY DATI	ES:				FY 2003:		N/A		FY 200	14:	Jan-04		FY 2005	:	Jan-05			
INSTALLATION SCHEDULE:	PY	_		1	2	<u>FY 04</u> 3	4	_	1	<u>FY 0</u> 2	<u>)5</u> 3	4		1	<u>FY</u> 2	<u>06</u> 3	4			
INPUT	(	0			7					3					3					
OUTPUT	(	0			3	2	2			3						3				
INSTALLATION SCHEDULE:				1	2 <u>F</u>	<u>Y 07</u> 3	4		1	<u>FY 0</u>	<u>)8</u> 3	4		1	2 FY	<u>09</u> 3	4	<u>TC</u>		<u>TOTAL</u>
INPUT					3			-	_	2			- <b>-</b>							18
OUTPUT					3					1	1									18
Notes/Comments																				

Exhibit P-3a, Individual Modification Program

Classification

MODIFICATION TITLE: SINCGARS TD-1456 Feb-04

COST CODE NU247

MODELS OF SYSTEMS AFFECTED: Antenna Multiplexer TD-1456

DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with

ground forces in a VHF-FM anti-jam mode.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ IN MIIIIONS)	D: 1/		_													_						
	Prior Yr			Y 02	_	<u>′ 03</u>	FY (		FY (		FY 0		FY 07		<u>FY (</u>		FY			<u>TC</u>		<u>Total</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	159	11.3					,		,		,					-					159	11.3
Interm Contractor Support Installation of Hardware	94	Note 1.	39	Note 1.	26	Note 1.															159	Note 1
PRIOR YR EQUIP	94	Note 1.	39	Note 1.	26	Note 1.															159	Note 1
FY 02 EQUIP	34	NOIE 1.	39	NOIC 1.	20	NOIC 1.															0	0.0
FY 03 EQUIP																					0	0.0
FY 04 EQUIP																					0	0.0
FY 05 EQUIP																					0	0.0
FY 06 EQUIP																					0	0.0
FY 07 EQUIP																					0	0.0
FY 08 EQUIP																					0	0.0
FY 09 EQUIP																					0	0.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		Note 1.		Note 1.		Note 1.		0.0		0.0		0.0		0.0		0.0		0.0		0.0		Note 1
TOTAL PROCUREMENT COST		11.3		0.0		0.0	·	0.0		0.0		0.0		0.0		0.0		0.0		0.0		11.3
METHOD OF IMPLEMENTATION:											ADMINIS	TRAT	IVE LEADT	IME:		6 mos		PRODL	JCTION	LEADTIME	:	18 mos

	CONTINACT DAT	LO.			2002.	IN/A	1 1 2003.	111/75	1 1 2004.	19/75	1 1 2000	J. 1N	
	DELIVERY DATE	ES:		FY	2002:	N/A	FY 2003:	N/A	FY 2004:	N/A	FY 2005	5: N	/A
INSTALLATION SCHEDULE:	PY	1	<u>FY 04</u> 2 3	4	1	<u>FY 05</u> 2 3	4	1	<u>FY 06</u> 2 3	4			
INPUT	159												
OUTPUT	159												
INSTALLATION SCHEDULE:		1	2 <u>FY 07</u> 3	4	1	<u>FY 08</u> 3	4	1	<u>FY 09</u> 2 3	4	TC	<u>TOTAL</u>	

NI/A

EV 2002:

NI/A

EV 2004: N/A

EV 2002:

INPUT

OUTPUT

Note 1. Installation costs are included in the costs to install AN/SRC-54A/B (D5009/NG250).

CONTRACT DATES:

Exhibit P-3a, Individual Modification Program Unclassified Classification

159

159

EV 200E

NI/A

MODIFICATION TITLE: SINCGARS AN-SRC-54B Feb-04

COST CODE Install Only

MODELS OF SYSTEMS AFFECTED: SINCGARS Ship System AN/SRC-54B

DESCRIPTION/JUSTIFICATION: Provides ships engaged in amphibious operations and naval gunfire support missions the capability to communicate with ground

forces in a VHF-FM anti-jam mode.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Prior Yrs Qty	\$	FY 0 Qty	) <u>2</u> \$	<u>FY 03</u> Qty		<u>FY 04</u> Qty \$	<u>FY 05</u> Qty \$	<u>FY 06</u> Qty \$	<u>FY 07</u> Qty \$	<u>FY 08</u> Qty \$	<u>FY 09</u> Qty \$	TC Qty \$	Qty	Total \$	1
RDT&E PROCUREMENT: Kit Quantity Installation Kits	aty	¥	<u> </u>	Ψ	u.y		Qty V	Qty V	Q.y V	Qty ψ	Qty V	Qty V	Qty V	Q.iy	Ψ	
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	311	11.7												311	11.7	Note 1
Data Training Equipment Production Support Other (DSA) Interm Contractor Support		3.9 1.1		0.9 0.5		0.3 0.1									5.1 1.8	
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP	243 243	11.9 11.9	116 116	3.5 3.5		1.6 1.6								421 421 0 0	17.0 17.0 0.0 0.0 0.0	
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP														0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0	
FY TC EQUIP TOTAL INSTALLATION COST		11.9		3.5	1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0 17.0	
TOTAL PROCUREMENT COST		28.7		5.0	1.9	.955	0.0	0.0	0.0 ADMINISTRATIV	0.0	0.0	0.0	0.0 CTION LEADTIME:		35.6	]
METHOD OF IMPLEMENTATION:											6 mos				18 mos	
	CONTRACT DAT	TES:			FY:	2002:	N/A	FY 2003	: N/A	FY 2004:	N/A	FY 2005	N/A			
	DELIVERY DATE	ES:			FY	2002:	N/A	FY 2003	: N/A	FY 2004:	N/A	FY 2005	N/A			
INSTALLATION SCHEDULE:	PY	_	_	1	<u>FY 04</u> 2	3	4	1 2	7 <u>05</u> 3 4	1	<u>FY 06</u> 2 3	4				
INPUT	421															
OUTPUT	421															
INSTALLATION SCHEDULE: INPUT OUTPUT			_	1	FY 07 2	3	4	1 2 EY	3 4	11	2 <u>FY 09</u> 2 3	<u>4</u>	TC	TOTAL 421 421		

Notes/Comments

Note 1: The installation of the 110 units of upgrades AN/SRC-54 radios procured under cost code D5001 are installed as follows: FY98: 21 units; FY99 33 units; FY00 56 units. TOTAL 110 units

The installation of the 311 units of AN/SRC-54B radios procured under cost code D5009 are installed as follows: FY99: 61 units; FY00: 9 units; FY01: 136 units; FY02: 54 units and FY03: 51 units. TOTAL 311 units.

Note 2: The FY01 installation will be accomplished with equipment that was procured in FY99, but modified for shipboard use in FY01

Note 3: Installation schedule changed IAW installation policy June 2000 directing installs to occur during CNO availabities.

### CLASSIFICATION

	CLASSIFICATION																																DAT	Έ							
										PRC	DU	JCT	ION	SC	HE	DU	LE																			ı	Febr	uary 2	2004		
4 00000	DIATION/DUDGET ACTIVITY															4 17				T	_						(DOL	EXI	HIBIT	P-21)											
	PRIATION/BUDGET ACTIVITY														P			OME																		BHEAL		•			
OP,N - E	A2 COMMUNICATIONS & ELECTRONI	C EQU	1 1	:NI									_			E	3LI: 3	3057						er \$51	VI											52NL	J				
			s		ACCEP	BAL				F		L YE		0:						CAL	EAR		04											FISC		EAR		05			
COST	ITEM/MANUFACTURER		E	PROC	PRIOR		02					ALEN					)3			03						RYE	AR 0	_										R YEA			_
CODE			R	QTY	то	AS OF	0	N	D	-					J			S				F	М	Α	М	J	J	Α	s	0	N	D	J	F	М	Α	M	J	-		-
	_		V		1-Oct	1-Oct	С	0	E									E					Α	Р	Α	U	U	U	E	С	0	E	Α	E	Α		Α	1 1	_	U	E
	== = =	FY					T	٧	С	N	В	R	R	Υ	N	L		P 7	· v	С	N	В	R	R	Υ	N	L	G	Р	T	٧	С	N	В	R	R	Υ	N	L	G	P
NU016	HFRG Broadband	03		1		1								_		_	_	Α	-	-	-	-			_						1						-	$\vdash$	$\dashv$		<u> </u>
NII IN10	EPLRS (DWTS transition)	04		13		13					-				-	-	-			-	Α	-				13						1					-	$\vdash$	$\dashv$	$\dashv$	$\vdash$
110019	LF LK3 (DW 13 transition)	04		13		13					+	-	-	-	+	-	-					-				13											1	$\vdash$	$\dashv$	$\dashv$	$\vdash$
NU022	Battle Force Email	04		5		5														Α	2	3																		$\neg$	
	BFEM HF messenger 3.X Upgrade	04		29		29														Α	5	5	5	5	5	4															
NU022	BFEM HF messenger 3.X Upgrade	05		4		4																									Α	4									
																																									Ш.
	Portable Radios	03		44		44																		Α																	Ш.
	Portable Radios	04		246		246																		Α	246																Ш.
NU237	Portable Radios	05		56		56																									Α	56						Ш			<u></u>
																																		ļ.,,							<u> </u>
NU250		04		162		372																	Α									18	18	18	18	18	18	18	18		
NU250	CSEL	05	<b> </b>	352	28	324													-			-										Α		<u> </u>				$\vdash$			28
NU239	VIXS	04		8		8				-									-	A	-	-	4	4														$\vdash$	$\dashv$	$\dashv$	<u> </u>
140200	VI//-O	U-T				-													-	+^		1	-	7								1					1	$\vdash$	$\dashv$	$\dashv$	
NU240	TMIP	04		6		6													А		1	1		1	1		1	1										H	寸	$\dashv$	
NU241	TMIP	05		9		9																									Α		1	1	1	1	1	1	1	1	1
-														I																											$\Box$
							OCT	NOV	DEC	JAN F	EB I	MAR	APR N	MAY J	IUN	JUL	AUG	SEP O	T NO	/ DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

			PRODUCTION RATE			PROCUREM	ENT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
HF Tilt mechanism	TBD	3/mo	6/mo	10/mo	30	30	360	360	780	Days
HFRG Broadband	Harris	1/mo	2/mo	3/mo	30	30	360	360	780	Days
COTS Hardware and Software	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CSEL	Boeing Company/SST, Palmdale CA	150*	300*	500*	2	2	10	10		Months

Exhibit P-21 Production Schedule

Unclassified

Classification

Note: CSEL production contract will be awarded jointly, thus monthly production rate shown is not what each Service will be allocated.

																															DA	E					
									P	RO	DUC	TIO	N S	CHE	ΞDU	LE	(Cor	tin	ued)	)					(D	OD E	XHIB	IT P-2	1)					Fe	bruar	ry 200	)4
	PRIATION/BUDGET ACTIVITY BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT													P			<b>OMEN</b> 057 C				ems U	nder	\$5M											<b>HEAD</b> 52NU			
			S		ACCEP	BAL				FIS	CAL	YEAR	0	6							FISCA	L YE	٩R	07	•							FISC	AL YE	AR	08		
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE							CALE	NDAF	YEA	R 06					С	ALEN	NDAR	YEA	R	07							CALE	NDAR	YEAF	₹	08
CODE			R	QTY	то	AS OF		N			М		М	J				N			F		A				s			D		F		A I		J	Α
		_	v		1-Oct	1-Oct	С	0	E		. A		Α	U	U	IJ	E C	0	E	Α	E	Α			JU	U	E	С	0	E	Α	E	Α	Ρ /	A U	) U	
		FY					T	٧	C I	N B	R	R	Υ	N	L	G	P T	٧	С	N	В	R	R	ΥI	۱ L	. G	P	T	V	С	N	В	R	R '	r N	l L	G
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NU250	CSEL	05		352	28	324	28	28	28 3	0 30	30	30	30 3	30	30 3	0																					
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		-						$\vdash$			+-	1	$\vdash$		-	-		-	+			-		-	+		-	+	+	+	+		$\vdash$	+	+	+	+
			1					<u> </u>			+-	1	MAY .	_	_	_		+-	1-	<u> </u>		_				-1-		-	+-	+	1-		$\vdash$	APR M	+	JN JUL	L AUG

		PRODUCTION RATE				PROCUREM				
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
HF Tilt mechanism	TBD	3/mo	6/mo	10/mo	30	30	360	360	780	Days
HFRG Broadband	Harris	1/mo	2/mo	3/mo	30	30	360	360	780	Days
CSEL	Boeing Company/SST, Palmdale CA	150*	300*	500*	2	2	10	10		Months

Exhibit P-21 Production Schedule

Note: CSEL production contract will be awarded jointly, thus monthly production rate shown is not what each Service will be allocated.

Unclassified

### CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHEET	DATE		February 2004						
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & EL		1ENT		P-1 ITEM NOM 310700 Submar		ipport	1	SUBHEAD 52W4		
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL	
QUANTITY										
COST (in millions)	\$3.7	\$16.4	\$17.8	\$13.2	\$13.3	\$18.5	\$18.7	Continuing	Continuing	

The Submarine Broadcast Support program was established to improve the reliability, efficiency and performance of the Extremely Low Frequency (ELF), Very Low Frequency (VLF), and Low Frequency (LF) submarine broadcast systems. These transmission mediums (ELF/VLF/LF) comprise the primary line of Fleet Ballistic Missile Command, Control and Communications (FBMC3). Two (2) ELF, four (4) VLF and five (5) LF shorebased transmitter sites are Emergency Action Message (EAM) relay points providing primary connectivity between Secretary of Defense and SSBNs. Tasks are planned/ongoing to improve performance of ELF/VLF/LF broadcast capabilities consistent with changing operational requirements and upgrades to shore infrastructure including integrating Internet Protocol (IP) capability in Broadcast Control Authorities (BCA). The Submarine LF/VLF VMEbus Receiver (SLVR) system replaces antiquated and limited capability LF/VLF receivers on SSBNs (Ohio Class) and SSNs (Los Angeles/Seawolf/Virginia Class) submarines and at selected shore sites. It provides flexibility for technology upgrades through the use of Pre-Planned Product Improvements (P3I). SLVR provides significant reductions in space and weight. The ELF Communications Ashore Robustness Program (ECARP) will provide upgrades to existing ELF transmitter systems by replacing degraded, obsolete and high maintenance items that could preclude reliable operation well into the future.

### JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

- (1) Submarine Broadcast Upgrades: (W4008) Modernizes the Fixed Submarine Broadcast System (FSBS) by upgrading VLF/LF transmitters to maintain current fleet readiness. The upgrades are necessary to replace obsolete or degraded equipment, which will have an adverse impact to the mission. VLF/LF transmission systems will incorporate new technologies based on government and commercial best practices to make this medium of communication more efficient. Upgrades will also be accomplished to the broadcast generation subsystems at the Broadcast Control Authorities (BCA) and Broadcast Keying Sites (BKS). The Clarinet Merlin Receivers will be replaced with a modern day equivalent as they have reached the end of service life and their performance is threatened by obsolescence. The vacuum-tube AN/FRT-72 low frequency transmitters will be replaced with solid state equivalent to ensure reliable operation with reduced life cycle cost. Composite bushings will replace the expensive and highly unique ceramic bushings used at the VLF/LF transmitter sites which are deteriorating and threaten the availability of submarine broadcasts. The Submarine Operating Authority (SUBOPAUTH) provides consolidation and replication technologies used to unify and provide Continuity of Operations (COOP) for the shore architecture of broadcast generation systems. The site upgrades will facilitate the commonality among the SUBOPAUTHs, reduce workload by automating processes, drive to common operating procedures and augment the Submarine Community transition to IP based broadcasts. A new transmit terminal replaces legacy Integrated VERDIN Transmit Terminal (IVTT) and KG-34 systems used for VLF/LF experiencing supportability and obsolesence issues. The addition of the new transmit terminal will provide logistical commonality with the airborne counter part and flexible technology resulting in reduced total ownership costs. This technology is essential to the DoD Crypto Modernization Program, since it integrates a replacement crypto device and allows rem
- (2) ECARP (Extremely Low Frequency (ELF) Communications Ashore Robustness Program): (W4013) Provides upgrades to existing ELF transmitter systems by replacing degraded, obsolete and high maintenance items that could preclude reliable operation well into the future.
- (3) NON-Fleet Modernization Program Equipment Installation and Fleet Modernization Program (FMP) Installation: (W4777).

	OCCT ANALYSIS										DATE			F-h	
	COST ANALYSIS													February 2004	
	APPROPRIATION ACTIVITY						P-1 ITE	M NOMENC	LATURE		I			SUBHEAD	
OP,N - BA	-2 COMMUNICATIONS AND ELECTRONIC E	QUIPMEN	1T						0700 Subma	rine Bro	adcast Supp	port		52W4	
	TOTAL COST IN THOUSANDS OF DOLLARS														
			PY					FY 2003			FY 2004			FY 2005	
COST		ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	Submarine Broadcast Systems														
W4008	Submarine Broadcast Upgrades	Α					2		925.0	17		15,293	7		4,470
	MERLIN**						2	462.5	925.0	4	498.8	1,995			
	AN/FRT-72's									4	1,525.0	6,100			
	Bushings**									2	1,450.0	2,900			
	SUBOPAUTH**									7	614.0	4,298	7	638.6	4,470
W4012	VALUE**	Α					1	2,017	2,017						
W4013	ECARP**	Α											1	12,295	12,295
14/4004	Submarine LF/VLF VME Receiver								40=						
W4001	Submarine LF/VLF VME Receiver	Α							467						0
	Submarine LF/VLF VME Receiver							233.5	0 467						
	Prefaulted Modules/Upgrade Kits						2	233.5	467						
W4555	Production Support	Α							115			874			602
W4777	Installation	Α							163			282			435
	Non FMP Installation Shore								163			282			435
	FMP Installation Ships								0			0			0
	DSA								0			0			0
							5		3,687	17		16,449	8		17,802
Remarks:	** Unit cost varies by site due to differing								.,						,
	equipment configurations at each location.														
	_														

P-1 Shopping List-Item No 78 - 2 of 13

### PROCUREMENT HISTORY AND PLANNING

A. DATE

February 2004

B. AP	PROPRIATION/BUDGET ACTIVITY					C. P-1 ITE	M NOMENCI	ATURE		1	SUBHEAD	
OP,N - E	BA2 COMMUNICATIONS & ELECTRONIC EQ	UIPMENT					310700 Sub	marine Broad	cast Su	upport		52W4
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
W4012	VALUE**	03	Continental Elec, Dallas TX	C/CPIF	SSC CHSN	Option	Apr-03	Jun-05	1	2,017.0	Yes	
W4008	Submarine Broadcast Upgrade MERLIN MERLIN AN/FRT-72's Bushings SUBOPAUTH** SUBOPAUTH**	03 04 04 04 04 05	Long Wave, Dallas,TX Long Wave, Dallas,TX Veridian, San Diego, CA SSC CHSN, SC Brandywine, Santa Ana, CA & Titan, San Diego, CA Titan, San Diego, CA	C/FFP OPTION C/CPFF C/FFP C/FFP	SPAWAR SPAWAR SSC CHSN SSC CHSN SSC SD SSC SD	Jan-03 Option N/A N/A N/A	Jun-03 Dec-03 Feb-04 Jan-04 Jan-04 Dec-04	Sep-04 Dec-04 Feb-06 Jan-05 Jul-04 Jun-05	2 4 4 2 7 7	462.5 498.8 1,525.0 1,450.0 614.0 638.6	Yes Yes Yes Yes Yes	
W4013	ECARP	05	TBD	TBD	SSC CHSN	Aug-04	Feb-05	Jul-07	1	12,295.0	No	

## D. REMARKS

<sup>\*\*</sup>Unit cost varies by site due to differing equipment configurations at each location.

MODIFICATION TITLE: VALUE February 2004

COST CODE W4012

MODELS OF SYSTEMS AFFECTED: VLF/LF Transmitter Systems

DESCRIPTION/JUSTIFICATION: Corrects deficiencies in material condition and logistics support of existing VLF/LF shore transmitter systems

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THO UNDER EACH (\$ III TIMIOTO)	Prior \	Yrs	FY	02	FY	03	F.	Y 04	F	Y 05	FY	06	FY	07		FY 08		FY 09	7	Г <u>С</u>	<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	<u></u> \$	Qty	<u>. 55</u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u></u> \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity		•		•	j			·	•	-	,	·		·	,	•		·			,	•
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	3	35.91	1	12.71	1	2.02															5	50.64
Engineering Change Orders Data Training Equipment Support Equipment																						
Other - Production Support Interm Contractor Support		1.83		0.22		0.05															5	2.10
Installation of Hardware PRIOR YR EQUIP	1	0.12 0.12	1	0.12 0.12	1	0.16	1	0.09	1	0.10	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	0.47 0.12
FY 01 EQUIP					1	0.16															1	0.16
FY 02 EQUIP							1	0.09													1	0.09
FY 03 EQUIP									1	0.10											1	0.10
FY 04 EQUIP																					0	0.00
FY 05 EQUIP																					0	0.00
FY 06 EQUIP																					0	0.00
FY 07 EQUIP																					0	0.00
FY 08 EQUIP																					0	0.00
FY 09 EQUIP																					0	0.00
FY TC EQUIP		0.10		0.10		0.10		0.00		0.40		0.00		0.00		0.00		0.00		0.00		0.47
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.12 37.85		0.12 13.05		0.16 2.23		0.09		0.10		0.00		0.00		0.00	-	0.00		0.00		0.47 51.11
METHOD OF IMPLEMENTATION:		37.00	'	13.03		2.23		0.09		ADMINIS	TPATIV		TIME:		8 Months		PROD		LEADTI		Varies See Note	31.11
METHOD OF IMITEEMENTATION.										ADMINIC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	L LLAD	T IIVIL.		O IVIOITUIS		TROD	0011011	LLADIII	IVIL.	varies occ ivoic	
CONTRACT DATES:			FY 2002	2	Feb-02			FY 2003		Apr-03			FY 2004				FY 200	05:				
DELIVERY DATES	:		FY 2002	2	Jun-04			FY 2003		Jun-05			FY 2004	1:			FY 200	05:				
					FY 03					FY 04					FY 05					FY 06		
INSTALLATION SCHEDULE:	PY	-	1	2	3	4	-	1	2	3	4		1	2	3	4	_	1	2	3	4	_
INPUT	2		1		1			1		1			1		1							
OUTPUT	1		•					·					•					1				
INSTALLATION SCHEDULE:			1	2 <u>E</u>	<u>Y 07</u> 3	4		1	2 <u>E</u>	Y 08 3	4		1	<sub>2</sub> E	<u>Y 09</u> 3	4		TC			TOTAL	
					<u> </u>		-						-		<u> </u>		_		-			
INPUT																					5	
OUTPUT																					5	

Notes/Comments:
\*Production lead time varies by site due to differing equipment configurations at each location.

Exhibit P-3a, Individual Modification Program Unclassified

MODIFICATION TITLE: SLVR (W4001) February 2004

COST CODE W4777

MODELS OF SYSTEMS AFFECTED: FMP Ship Installations

DESCRIPTION/JUSTIFICATION: Replace the legacy shipboard VLF/LF systems

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Prior Y	<u>rs</u>	<u>F</u>	<u>/ 02</u>	FY	<u>′ 03</u>	FY	′ 04	FY	05	FY	06	FY (	07	FY 08		FY 09		_	<u>TC</u>	<u>Tota</u>	<u>l</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	100	33.51																			100	33.51
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment		0.24																				0.24
Support Equipment		0.86																				0.86
Other - Production Support		1.66																				1.66
DSA		0.23		0.08																		0.31
Installation of Hardware	69	1.99	31	1.01	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	100	2.99
PRIOR YR EQUIP	69	1.99																			69	1.99
FY 01 EQUIP			31	1.01																	31	1.01
FY 02 EQUIP																					0	0.00
FY 03 EQUIP																					0	0.00
FY 04 EQUIP																					0	0.00
FY 05 EQUIP																					0	0.00
FY 06 EQUIP																					0	0.00
FY 07 EQUIP																					0	0.00
FY 08 EQUIP																					0	0.00
FY 09 EQUIP																					0	0.00
FY TC EQUIP																					0	0.00
TOTAL INSTALLATION COST		1.99		1.01		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		2.99
TOTAL PROCUREMENT COST		38.48		1.09		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		39.56
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIV	E LEAD	TIME:		3 Months		PRODU	ICTION	LEADT	IME:	6 Months	

CONTRACT DATES: FY 2002 FY 2003 FY 2004: FY 2005: DELIVERY DATES: FY 2002 FY 2003 FY 2004: FY 2005: FY 03 FY 04 FY 05 FY 06 INSTALLATION SCHEDULE: PY 3 INPUT 90 3 3 OUTPUT 90 3 3 FY 07 FY 08 2 INSTALLATION SCHEDULE: TC **TOTAL** INPUT 100 OUTPUT 100

Notes/Comments Installation delays due to ship availability Exhibit P-3a, Individual Modification Program Unclassified Classification MODIFICATION TITLE: SLVR (W4001) February 2004

COST CODE W4776

MODELS OF SYSTEMS AFFECTED: NON-FMP Shore Installations

DESCRIPTION/JUSTIFICATION: Replaces legacy VLF/LF receive systems

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior \	<u>rs</u>	<u>F`</u>	<u> </u>	F	<u>/ 03</u>	FY	04	FY 0	5	FY (	<u>)6</u>	FY 07	<u>7</u>	FY 08		FY 09	I	<u>-C</u>	<u>Total</u>	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$
RDT&E																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	50	19.02																		50	19.02
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other - Production Support		0.54																		0	0.54
Interm Contractor Support																					
Installation of Hardware	37	2.64	13	0.48	0	0.0	0	0.0	0	0	0	0	0	0	0 0	0	0	0	0	50	3.12
PRIOR YR EQUIP	37	2.64																		37	2.64
FY 01 EQUIP			13	0.48																13	0.48
FY 02 EQUIP																				0	0.00
FY 03 EQUIP																				0	0.00
FY 04 EQUIP																				0	0.00
FY 05 EQUIP																				0	0.00
FY 06 EQUIP																				0	0.00
FY 07 EQUIP																				0	0.00
FY 08 EQUIP																				0	0.00
FY 09 EQUIP																				0	0.00
FY TC EQUIP																				0	0.00
TOTAL INSTALLATION COST		2.64		0.48		0.00		0.00		0.00		0.00		0.00	0.00		0.00		0.00		3.12
TOTAL PROCUREMENT COST		21.66		0.48		0.00		0.00		0.00		0.00		0.00	0.00		0.00		0.00		22.14
METHOD OF IMPLEMENTATION:									Δ	DMINIC	TRATIVE	ΙFΔD	TIME		3 Months	PROD	UCTION	LEADTI	ME.	6 Months	

METHOD OF IMPLEMENT	ATION:								ADMINIS	STRATIVI	E LEAD	TIME:		3 Months	3	PROD	UCTION	LEADT	IME:	6 Month	S
CONTRAC	T DATES:		FY 2002	2			FY 2003	3:			FY 200	4:				FY 200	)5:				
DELIVER	RY DATES:		FY 2002	2			FY 2003	<b>3</b> :			FY 200	4:				FY 200	05:				
INSTALLATION SCHEDUL	E: _	PY	1	2	<u>FY 03</u> 3	4	 11	2	<u>FY 04</u> 3	4		1	2	<u>FY</u> 3	<u>′ 05</u> 4	_	1	2	<u>FY 06</u>	<u> </u>	4
INPUT		50																			
OUTPUT		50																			
INSTALLATION SCHEDUL	E:		1	2	<u>FY 07</u> 3	4	 1	2 E	<u>Y 08</u> 3	4		1	<u>F)</u> 2	<u>7 08</u> 3	4		TC	_		<u>T(</u>	<u>DTAL</u>
INPUT																					50
OUTPUT																					50

MODIFICATION TITLE: Submarine Broadcast Upgrade February 2004

COST CODE W4008 MODELS OF SYSTEMS AFFECTED: MERLIN

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment and antenna components worldwide

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	Prior '	Vro	EV.	00	EV.	00	_	V 04				00	ΕV	07			_	V 00		TO.	T-4-1	
	Qty	115 \$	FY Qty	<u>02</u> \$	FY Qty	<u>03</u> \$	Qty	<u>Y 04</u> \$	Qty	<u>Y 05</u> \$	<u>FY</u> Qty	<u>06</u> \$	<u>FY</u> Qty	<u>07</u> \$	Qty	<u>′ 08</u> \$	Qty	<u>Y 09</u> \$	Qty	<u>TC</u> \$	Total Qty	\$
RDT&E	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ	Qty	Ψ
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																					6	2.92
Equipment					2	0.93	4	2.00													ŭ	2.02
Equipment Nonrecurring					_																	
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other - Production Support						0.05		0.08														0.13
Interm Contractor Support																						
Installation of Hardware	0	0.00			0	0.00	2	0.03	4	0.07	0	0.00	0	0.00	0	0.00	0	0.00			6	0.10
PRIOR YR EQUIP																					0	0.00
FY 01 EQUIP																					0	0.00
FY 02 EQUIP																					0	0.00
FY 03 EQUIP							2	0.03													2	0.03
FY 04 EQUIP									4	0.07											4	0.07
FY 05 EQUIP																					0	0.00
FY 06 EQUIP																					0	0.00
FY 07 EQUIP																					0	0.00
FY 08 EQUIP																					0	0.00
FY 09 EQUIP																					0	0.00
FY TC EQUIP																					0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00		0.03		0.07		0.00		0.00		0.00		0.00		0.00		0.10
TOTAL PROCUREMENT COST		0.00		0.00		0.97		2.11		0.07		0.00		0.00		0.00		0.00		0.00		3.14
METHOD OF IMPLEMENTATION:										ADMINIS	TRATIV	E LEAD	TIME:		6 Months	8	PROD	UCTION	LEADTIN	ΛE:	12 -15 Months	
CONTRACT DATES:			FY 2003		Jun-03			FY 2004		Dec-03			FY 2005	:			FY 200	ne.				
CONTRACT DATES.			1 1 2003		Juli-03			1 1 2004		Dec-03			1 1 2003	,			11200	JO.				
DELIVERY DATES:			FY 2004		Sep-04			FY 2005	i	Dec-04			FY 2006	i			FY 200	07:				
				_	·V 02					E) ( 2 :					_					F) / 0 -		
INSTALLATION SCHEDULE:	PY		1	2	<u>Y 03</u> 3	4		1	2	<u>FY 04</u> 3	4		1	2	3 3	<u>/ 05</u> 4		1	2	<u>FY 06</u> 3	4	
INSTALLATION SCHEDULE.	<u> </u>	-			3	4	=			3	- 4	-			3		_			3	4	_
INPUT											1		1		2	2						
OUTPUT											1		1		2	2						
0011 01															2	_						
				_	V 07				_	v 00				_	V 00							
INSTALLATION SCHEDULE:			1	2	<u>Y 07</u> 3	4		1	2	<u>Y 08</u> 3	4		1	2 2	<u>Y 09</u> 3	4		TC			TOTAL	
INPUT							-					_					_		_		6	
																					ō	
OUTPUT																					6	

<sup>\*</sup>Production Lead Time varies due to differing equipment at each location

MODIFICATION TITLE: Submarine Broadcast Upgrade February 2004

COST CODE W4008
MODELS OF SYSTEMS AFFECTED: AN/FRT-72's

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment worldwide

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)	Prior	Yrs	FY	02	ΕV	<u>′ 03</u>	F,	Y 04	FY	<u>/ 05</u>	FY	06	FY	07	ΕV	<u>/ 08</u>	F	Y 09		<u>TC</u>	<u>Tota</u>	al
	Qty		Qty	<u>52</u> \$	Qty	\$	Qty	<u></u> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	<u></u> \$	Qty	<u></u> \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders							4	6.10													4	6.10
Data Training Equipment Support Equipment Other - Production Support Interm Contractor Support Installation of Hardware	0	0.00					0	0.18	0	0.00	4	0.05	0	0.00	0	0.00	0	0.00			4	0.18 0.05
PRIOR YR EQUIP																					0	0.00
FY 01 EQUIP																					0	0.00
FY 02 EQUIP																					0	0.00
FY 03 EQUIP FY 04 EQUIP											4	0.05									0 4	0.00
FY 04 EQUIP FY 05 EQUIP											4	0.05									0	0.05 0.00
FY 06 EQUIP																					0	0.00
FY 07 EQUIP																					0	0.00
FY 08 EQUIP																					0	0.00
FY 09 EQUIP																					0	0.00
FY TC EQUIP																					0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00		0.00		0.00		0.05		0.00		0.00		0.00		0.00		0.05
TOTAL PROCUREMENT COST		0.00		0.00		0.00		6.28		0.00		0.05		0.00		0.00		0.00		0.00		6.33
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIV	E LEAD	TIME:		7 Months	S	PROD	UCTION	LEADTI	ME:	24 Months	
CONTRACT DATES:			FY 2002					FY 2003	3				FY 2004	1	Feb-04		FY 200	05:				
DELIVERY DATES:			FY 2002					FY 2003	3				FY 2004	1	Feb-06		FY 200	05:				
				F	Y 03					FY 04					Ε\	<u>/ 05</u>				FY 06		
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4	
		_					-					-					_				<del>-</del>	_
INPUT																			2	2		
OUTPUT																				2	2	
INSTALLATION SCHEDULE:			1	2 2	<u>Y 07</u> 3	4	<del>-</del>	1	2 2	<u>Y 08</u> 3	4	_	1	2 2	<u>Y 09</u> 3	4	=	TC	_		<u>TOTAL</u>	
INPUT																					4	
OUTPUT																					4	

Notes/Comments

\*Production Lead Time varies due to differing equipment at each location

Exhibit P-3a, Individual Modification Program

Unclassified Classification MODIFICATION TITLE: Submarine Broadcast Upgrade February 2004

COST CODE W4008
MODELS OF SYSTEMS AFFECTED: BUSHINGS

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment and antenna components worldwide

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ III IIIIIIIOIIS)	D	,															_		_			
	Prior \		FY		<u>FY</u>			Y 04		<u>′ 05</u>		06		07		<u>/ 08</u>		Y 09		<u>TC</u>	<u>Tot</u>	_
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment							2	2.90					3	3.14	3	3.26	3	3.26			11	12.56
Equipment Nonrecurring							-	2.00					~	0.14		0.20	Ŭ	0.20				12.00
Engineering Change Orders																						
Data																						
Training Equipment																						
Support Equipment																						
Other - Production Support								0.15						0.18		0.16		0.14				0.64
Interm Contractor Support																						
Installation of Hardware	0	0.00					0	0.00	2	0.02	0	0.00	0	0.00	3	0.03	3	0.03	3	0.03	11	0.12
PRIOR YR EQUIP																					0	0.00
FY 01 EQUIP																					0	0.00
FY 02 EQUIP																					0	0.00
FY 03 EQUIP																					0	0.00
FY 04 EQUIP									2	0.02											2	0.00
										0.02												
FY 05 EQUIP																					0	0.00
FY 06 EQUIP																					0	0.00
FY 07 EQUIP															3	0.03					3	0.03
FY 08 EQUIP																	3	0.03			3	0.03
FY 09 EQUIP																			3	0.03	3	0.03
FY TC EQUIP																					0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00		0.00		0.02		0.00		0.00		0.03		0.03		0.03		0.12
TOTAL PROCUREMENT COST		0.00		0.00		0.00		3.05		0.02		0.00		3.32		3.46		3.44		0.00		13.3
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIV	E LEAD	TIME:		6 Month	s	PROD	UCTION	LEADTIN	ME:	12 Months	
CONTRACT DATES:			FY 2002					FY 2003	ł				FY 2004	1	Jan-04		FY 200	05.				
CONTINUE DATES.			1 1 2002					1 1 2000					1 1 200	•	0011 0-1		1 1 20	00.				
DELIVERY DATES:			FY 2002					FY 2003					FY 2004	1	Jan-05		FY 200	05:				
DELIVERT DATES.			1 1 2002					1 1 2000	,				1 1 200-	•	Jan-05		11200	05.				
				-	Y 03					E) ( 0 (					-					E) ( 00		
									_	FY 04				_		<u>/ 05</u>			_	FY 06		
INSTALLATION SCHEDULE:	PY	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4	
INPUT														1	1							
OUTPUT															1	1						
					<u> </u>					<u> 7 08</u>				<u>E</u>	Y 09							
INSTALLATION SCHEDULE:			1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	TC	_		TOTAL	
INPUT									1	1	1			1	1	1		3			11	
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OUTPUT										1	1		1		1	1		4			11	
N=t==/0======																	:4 D 0- 1			-4! D		

Notes/Comments

\*Production Lead Time varies due to differing equipment at each location

Exhibit P-3a, Individual Modification Program

Unclassified Classification MODIFICATION TITLE: Submarine Broadcast Upgrade February 2004

COST CODE W4008
MODELS OF SYSTEMS AFFECTED: SUBOPAUTH

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment at shore sites worldwide

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Prior Y	'rs	FY (	)2	FY (	)3	F)	Y 04	F١	/ 05	FY	06	FY	07	FY	08	F١	<u>′ 09</u>	<u>TC</u>	)	Tota	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity					,						-				·						-	
Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring							7	4.30	7	4.47	2	1.43			4	2.81					20	13.00
Engineering Change Orders Data Training Equipment																						
Support Equipment Other - Production Support Interm Contractor Support								0.47		0.26		0.03				0.22						0.97
Installation of Hardware	0	0.00					4	0.16	10	0.25	2	0.10	0	0.00	0	0.00	4	0.21			20	0.71
PRIOR YR EQUIP																					0	0.00
FY 01 EQUIP																					0	0.00
FY 02 EQUIP																					0	0.00
FY 03 EQUIP									_												0	0.00
FY 04 EQUIP							4	0.16	3	0.08											7	0.24
FY 05 EQUIP									7	0.16	_	0.40									7	0.16
FY 06 EQUIP FY 07 EQUIP											2	0.10									2	0.10 0.00
FY 07 EQUIP FY 08 EQUIP																	4	0.21			4	0.00
FY 09 EQUIP																	4	0.21			0	0.21
FY TC EQUIP																					0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00		0.16		0.25		0.10		0.00		0.00		0.21		0.00	0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00		4.92		4.97		1.56		0.00		3.03		0.21		0.00		14.68
METHOD OF IMPLEMENTATION:		0.00		0.00		0.00		7.52		ADMINIS	TRATIV		TIME:		2 Months		PRODI		LEADTIME		6 Months	14.00
METHOD OF IMPLEMENTATION:										/ (DIVIII VIC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				2 Month		TROBE	7011011	LL/\D \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		O MONUIO	
CONTRACT DATES:			FY 2002					FY 2003					FY 2004		Jan-04		FY 200		Dec-04			
CONTRACT DATES:			FY 2002 FY 2002					FY 2003					FY 2004 FY 2004		Jan-04 Jul-04		FY 200		Dec-04 Jun-05			
				Ē	Y 03					<u>FY 04</u>						<u>05</u>				FY 06		
				<u>E</u> 2	<u>Y 03</u> 3	4				<u>FY 04</u> 3	4				Jul-04	<u>05</u> 4				<u>FY 06</u> 3	4	
DELIVERY DATES:			FY 2002			4		FY 2003			4		FY 2004		Jul-04			5:	Jun-05		4	_
DELIVERY DATES:			FY 2002			4		FY 2003					FY 2004	2	Jul-04 <u>FY</u> 3	4		5:	Jun-05	3	4	_
DELIVERY DATES: INSTALLATION SCHEDULE: INPUT			FY 2002	2		4		FY 2003	2		4		FY 2004 1 1	2 2 2	Jul-04  FY 3	4		5: <u>1</u>	Jun-05	2	4 TOTAL	_
DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT			FY 2002	2 <u>FY</u>	3			FY 2003	2 	3	4		1 1 1	2 2 2	Jul-04  FY 3  3  3  Y 09	4 4		5:	Jun-05	2		_
INSTALLATION SCHEDULE: INPUT OUTPUT INSTALLATION SCHEDULE:			FY 2002	2 <u>FY</u>	3			FY 2003	2 	3	4		1 1 1 1	2 2 2 2	Jul-04  FY 3  3  3  Y 09	4 4		5: 1 TC	Jun-05	2	TOTAL	_

Notes/Comments

\*Production Lead Time varies due to differing equipment at each location

Exhibit P-3a, Individual Modification Program

Unclassified Classification MODIFICATION TITLE: Extremely Low Frequency (ELF) Communications Ashore Robustness Program - ECARP

COST CODE W4013
MODELS OF SYSTEMS AFFECTED: VARIOUS

DESCRIPTION/JUSTIFICATION: Upgrades and replaces submarine broadcast equipment and antenna components worldwide

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THANOIALT LAN. (\$ IIT IIIIII0113)	Prior \	Yrs	FY	02	FY	03	FY 04	F	Y 05	FY	06	FY	07	FY	08	FY	09	TC		Tota	ı
	Qty	\$	Qty	<del></del> \$	Qty	\$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits																					
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment	0	0.00						1	12.30	1	11.24									2	23.53
Other - Production Support									0.35		0.36									0	0.71
Interm Contractor Support Installation of Hardware	0	0.00						0	0.00	0	0.00	1	0.12	1	0.11	0	0.00			2	0.23
PRIOR YR EQUIP																				0	0.00
FY 01 EQUIP																				0	0.00
FY 02 EQUIP																				0	0.00
FY 03 EQUIP																				0	0.00
FY 04 EQUIP																				0	0.00
FY 05 EQUIP												1	0.12							1	0.12
FY 06 EQUIP														1	0.11					1	0.11
FY 07 EQUIP																				0	0.00
FY 08 EQUIP																				0	0.00
FY 09 EQUIP																				0	0.00
FY TC EQUIP																				0	0.00
TOTAL INSTALLATION COST		0.00		0.00		0.00	0.00		0.00		0.00		0.12		0.11		0.00		0.00		0.23
TOTAL PROCUREMENT COST		0.00		0.00		0.00	0.00		12.64		11.60		0.12		0.11		0.00		0.00		24.47
METHOD OF IMPLEMENTATION:							•		ADMINIS	STRATIV	'E LEAD	TIME:		6 Months		PRODU	ICTION	LEADTIME	:	30 Months	
CONTRACT DATES:			FY 2003				FY 200	4				FY 2005	5	Feb-05		FY 2006	6:	Jan-07			
DELIVERY DATES:			FY 2003				FY 200	4				FY 2005	5	Jul-07		FY 2006	S:	Jul-09			
					Y 03				FY 04					FY					FY 06		
INSTALLATION SCHEDULE:	PY	_	1	2	3	4	1	2	3	4	_	1	2	3	4		1	2	3	4	<del></del>
INPUT	0	)																			
OUTPUT	0	)																			
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INSTALLATION SCHEDULE:			1	2 2	<u>' 07</u> 3	4	1	2 2	<u>Y 08</u> 3	4	_	1	2 2	<u>Y 09</u> 3	4		TC	=		TOTAL	
INPUT						1				1											2
OUTPUT							1					1									2
Notes/Comments															Exhib	it P-3a, In	dividua	I Modificati	ion Pro	gram	

P-1 Shopping List-Item No 78-11 of 13

Exhibit P-3a, Individual Modification Program
Unclassified
Classification

February 2004

# Unclassified CLASSIFICATION

																																	DAT	ΓΕ							
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	PRODUCTION	SCHED	ULE	REACHED
MANUFACTURER'S NAME & LOCATION	MINIMUM	1 & 5	MAX.	D+
	SUST.			
W4012 - Continental Electronics Corp, Dallas, TX	1		1	
W4008 - Various	1		7	
W4013 - TBD	1		2	

W4012 - PF	ROCU	IREM	ENT LEAD T	IME
	ADM	IN	MANUFAC-	
	LEAD	TIME	TURING	TOTAL
	PRIOR	AFTER	TIME	AFTER 1
	30-Sep	30-Sep		ост
INITIAL	15 Mo		24 Mor	
		8	2111101	
REORDER		Мо		

W4008 - P	ROCI	JREN	IENT LEAI	TIME
	ADM	IN	MANUFAC-	
	LEAD	TIME	TURING	TOTAL
	PRIOR	AFTER	TIME	AFTER 1
	30-Sep	30-Sep		ост
INITIAL	7 MO		*6-24 MO	
REORDER	7 MC	)	*6-24 MO	

W4013 - PRO	CUREMENT LEAD T	IME		
	ADMIN		MANUFAC-	
	LEAD TIME		TURING	TOTAL
	PRIOR	AFTER	TIME	AFTER 1
	30-Sep	30-Sep		ост
INITIAL	6 MO		30 MO	
REORDER				

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST ITEM NO. 78 PAGE NO. 12 of 13

Unclassified CLASSIFICATION

REMARKS: \* Quantity varies by site due to differing equipment configurations.

# Unclassified

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W4008	Submarine Broadcast Upgrade							_				_																							_	4		4	4	+
	AN/FRT-72's	04						2				2																								4		4	_	4
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	+			1									1																						+	-	-	+	+	+
	+			1									1																						+	-	-	+	+	+
						$\dashv$							1																						$\top$	+		十	十	+
				1									1																						+	1	+	+	+	+
	1	1		OCT	NOV	DEC	JAN	EEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	EEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	v	JN JL	IL AU	UG SEF	

	PRODUCTION SCHE	DULE		REACHED
MANUFACTURER'S NAME & LOCATION	MINIMUM	1 & 5	MAX.	D+
	SUST.			
W4008 - Various	1		4	
W4013 - TBD	1		2	

W4008	- PROCU	IREM	ENT	LEAD	TIME
	ADM	IN	MANUFA	IC-	
	LEAD	TIME	TURING		TOTAL
	PRIOR	AFTER	TIME		AFTER 1
	30-Sep	30-Sep			ост
	7		24		
INITIAL	MO		MO		
	7		24		
REORDER	MO		MO		

REMARKS			

NAVMAT FORM 7110/4 (REVISED 11/77)

P-1 SHOPPING LIST

Unclassified

CLASSIFICATION

### UNCLASSIFIED

### **CLASSIFICATION**

BUDGET ITEM JUSTIFIC	ATION SHE	ET					DATE			Februa	ry 2004
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & EL		PMENT			P-1 ITEM NOME 313000 Submari		ins			SUBHEAD 52	LO
	PY		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY											
COST (in millions)			\$121.417	\$109.529	\$94.533	\$91.359	\$104.333	\$143.315	\$154.029	Cont.	Cont.

PROGRAM COVERAGE: The Submarine Communications Program mission is to create a common, automated, open system architecture radio room for all submarine classes. The program provides for the procurement and installation of systems incorporating the technical advances of network centric warfare to allow the submarine force to communicate as part of the Battle Group. The program addresses the unique demands of submarine communications, obsolescence issues and higher data rate requirements.

ANTENNA MODIFICATIONS (L0035) - Modifications to antenna and ancilliary legacy systems in order to provide engineering changes. These modifications address Very Low Frequency (VLF) performance, Mic Frequency/High Frequency (MF/HF) efficiency, UHF antenna efficiency and increased data rate capability with the UHF multifunction mast upgrade, increased reliability and maintainability, decrease vulnerability, and cost effective technology insertion. Modifications are applicable to all SSN/SSBN classes and are implemented on a Fleet priority basis. RDT&E (N) Program Element - PE 0604503N pertains.

TIME and FREQUENCY DISTRIBUTION SYSTEM (TFDS)/BSQ-9 (V) (L0078) - The TFDS/BSQ-9 (V) provides precision frequency and Precision Time and Time Interval (PTTI) signals that are synchronized to Universal Coordinated Time (UTC) via the Global Positioning System (GPS). The TFDS/BSQ-9 (V) amplifies and distributes external precision source signals to communications, navigation, electronic warfare, combat, and ship control systems onboard all classes of submarines. The TFDS/BSQ-9 (V) provides improved reliability and lower life cycle cost over the older Cesium Standards. Shore site variants are funded by N6. This procurement supports SSN688. SSN21, and SSBN 726 (OHIO) class submarines.

OE-538/BRC ANTENNA GROUP (IMPROVED AN/BRA-34) (L0080) - The OE-538/BRC antenna group provides an improved multifunctional combined communications, navigation, and Identification Friend or Foe (IFF) mast mounted antenna group and replaces the AN/BRA-34 and OE-207/BRC antennas. It provides the SSN688, SSN21, and OHIO class (SSBN) submarines with a mast mounted, multifunction antenna with greater reliability than the current AN/BRA-34 and OE-207/BRC antennas and supports the additional capabilities of high frequency broadband, Demand Assigned Multiple Access (DAMA) operation, and Advanced Digital Waveform (ADW). The Radio Frequency Distribution and Control System (RFDACS) technology update brings COTS functionality and supportability to the OE-538/BRC system. The RFDACS Network Centric Architecture enables the radio room control LAN to remotely interface with the functions necessary for the user to operate the OE-538/BRC antenna group. RDT&E (N) Program Element - PE 0604503N pertains.

P-1 Shopping List-Item No - 79 - 1 of 15

Exhibit P-40, Budget Item Justification

### UNCLASSIFIED

### CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continued)	DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	313000 Submarine Communications	52L0

SUBMARINE COMMUNICATIONS SUPPORT SYSTEM RADIO ROOM/ COMMON SUBMARINE RADIO ROOM (SCSS/CSRR) (L0084) - The SCSS/CSRR will consist of an open system, multimedia, circuit sharing architecture that will serve as the shipboard automated communications control system. The CSRR will leverage investment in VIRGINIA External Communication System (ECS)(SCN funded) to modernize/update all submarine radio rooms to a common functional baseline. Procurement in this line is for the radio room workstations, chassis, common power supplies, power distribution units, cabling, mounting kits and ancillary components required to integrate submarine communication equipment. This procurement supports SSN688, SSN21, and OHIO class submarines. RDT&E (N) Program Element - PE 0604503N pertains.

SUBMARINE HIGH DATA RATE (HDR) SATELLITE COMMUNICATIONS ANTENNAS (L0087) - The Submarine HDR antenna provides submarines with antennas that have the bandwidth, gain, and flexibility to meet the stated COMSUBLANT/COMSUBPAC requirements for HDR communications in the SHF and EHF frequency spectrums. RDT&E (N) Program Element - PE 0604503N pertains.

SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM (SubLAN) (L0097) - Funds a robust shipboard backbone IT network with multiple classification enclaves that, along with the SubHDR antenna and ADNS, provides end-to-end wideband connectivity to the global DISN networks (SIPRNet and NIPRNet). SubLAN is designed in accordance with the IT for the 21st Century (IT21) fleet initiative, and thus SubLAN will support greatly improved connectivity to, and interoperability with, the carrier battlegroup (CVBG) commander--thereby achieving Network-Centric Warfare--and with shore commands. The SubLAN network is enhanced for mission-critical tactical applications, and as such SubLAN forms the medium that will interconnect Sonar, Combat, ESM, Radio, etc. and permit the seamless exchange of warfighting tactical data between these systems and with the CVBG commander. The SubLAN tactical backbone replicates the functionality of the USS Virginia class Architecture network, allowing backfit of Virginia class tactical subsystem modernization into existing submarines. The SubLAN shipboard IT infrastructure is being designed as an all-COTS, open-system architecture such that it will permit other electronic subsystem programs to rely on SubLAN for subsystem interconnectivity (rather than having each subsystem install its own IT network); the revolutionary approach of treating the shipboard network as a basic utility (like water, power and lighting) will support the efficient and economic modernization of the various electronic subsystems.

SUBMARINE TACTICAL LAN (L00XX - NAVSEA)- The Submarine Tactical Integrated Digital System (TIDS) is a phased evolutionary shipboard Information Technology backbone network providing End to End wideband connectivity to the global DISN networks. As part of this phased acquisition approach and implementation of Open Architecture systems concepts in the submarine fleet, the TIDS architecture is being federated into two linked subsystems, a Submarine (SubLAN) and a Tactical (TacLAN). TacLAN is supported within the framework of this budget exhibit. TacLAN provides common interfaces for data sharing between onboard subsystems as well as the interconnectivity between Tactical Systems of Sonar, Combat Control, ESM which permits the exchange of this Tactical information off hull. TacLAN is being implemented within the context of the overall AN/BYG-1 program and being delivered as part of the Tactical Control System. Once installation of TacLAN and SubLAN is completed the requirements for TIDS 3 will be satisfied.

SUBMARINE SHIP PC UPGRADE (L0094) - Funds the initial procurement of PCs, software, printers and scanners in concert with the fielding of the Tactical Integrated Digital System (TIDS) shipboard Information Technology (IT) network (L0097).

DESIGN SERVICES ALLOCATION (DSA) (L0777) - Design work and engineering associated with ship alterations.

	COST ANALYSIS							DATE						Februa	ry 2004
APPROPRI	ATION ACTIVITY				P-1 ITEM	NOMENCL	ATURI	<u> </u> E					SUBHI	EAD	
OP,N - BA-	2 COMMUNICATIONS AND ELECTRONIC EQUIPM	ENT			313000 Su	bmarine Co								52L0	
							Т	OTAL COS		SAND					
COST		ID	PY TOTAL		FY 2002 UNIT	TOTAL		FY 200 UNIT	3 TOTAL		FY 200 UNIT	4 TOTAL		FY 2005 UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
L0035	ANTENNA MODIFICATIONS	A	0031	QII	0031	0031	VAR	0031	2,911		0031	2,561	VAR	0031	3,250
	TFDS/BSQ-9 (V)	Α					2	433.5	867	8	199.3	1,594	5	326.2	1,631
L0080	OE-538/BRC/RFDACS (1)	Α					7	1,102.6	7,718	8	1,086.1	8,689	22	834.6	18,362
L0084	SCSS/CSRR RADIO ROOM CSRR-SSN 21 (2)	В					1	13,066.0	22,346 13,066			21,379 3,150			27,104
	CSRR-SSIN 21 (2) CSRR-SSBN 726 (OHIO) (3)	В					1	9,280.0	9,280	2	9,114.5	18,229		5,435.8	21,743
	SCSS/CSRR-SSN 688 (4)	В					0	0,200.0	0,200	_	0,114.0	0	0	0,100.0	2,376
	SCSS/CSRR-Non-Class Specific Test	Ā					ő		0	0		0	Ö		2,985
	and Production Facilities (5)														·
L0087	HIGH DATA RATE ANTENNA	A					40	0.405.5	21,855	_	0.400.0	20,413	_	0.700.0	22,376
	High Data Rate Antenna	Α					10	2,185.5	21,855	6	3,402.2	20,413	6	3,729.3	22,376
L0094	SUB SHIP PC UPGRADE	Α					VAR		355						
L0097	SubLAN (6, 7, 8)	Α							12,380			11,549			4,383
	Equipment						35	31.4	1,100	51	187.0	9,538	19	142.4	2,705
	ShipALT								11,280			2,011			1,678
L0555	PRODUCTION SUPPORT								4,137			3,963			5,120
L0777	INSTALLATION EQUIPMENT								16,336			16,933			12,307
	FMP INSTALL						VAR		13,694	VAR		15,973	VAR		11,073
	DSA						VAR		2,642	VAR		960	VAR		1,234
	TOTAL SPAWAR CONTROL								88,905			87,081			94,533
	TOTAL NAVSEA CONTROL								32,512			22,448			
	Consolidated Control								121,417			109,529			
Remarks:															
	1) OE-538 Unit cost variance due to mix of OE-538 and RFDAC							nt.							
	2) FY 03 CSRR SSN 21 cost includes Engineering Change Prop		*			l Waveform (	ADW).								
	<ol> <li>CSRR SSBN FY03 unit cost reflects funding for one (1) TTF,</li> <li>SCSS/CSRR SSN 688 FY05 funding for Production Start up</li> </ol>			acılıty Star	ι up.										
	SCSS/CSRR SSN 688 F Y05 funding for Production Start up :     SCSS/CSRR Non-Class Specific FY05 funding for Engineering			I CP) to inco	I proprate full DI	I VR functionali	I itv .								
	SubLAN unit price reflects different configuration of submarin														
	7) FY03 unit price reflects PC augment only.														
	8) FY04 unit price includes PC augment. FY05-FY09 reflects S	ubLAN unit	S.												
			l		1	L	1	l							

	COST ANALYSIS							DATE						Februa	ry 2004
	ATION ACTIVITY					NOMENCL	ATURE	<b>.</b>					SUBHE	EAD	.,
OP,N - BA-2	2 COMMUNICATIONS AND ELECTRONIC EQUIPM	ENT	ı		TacLAN									52L0	
			PY		FY 2002			FY 20	OST IN THOUS	ANDS	OF DOLLA FY 200			FY 2005	
COST	NAVSEA	ID	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
	TacLAN			Ψ			0		0			16,164	٠,		
	SEAWOLF Class (SSN21) Trident Class (SSBN) Trident Class (SSGN) Los Angeles Class (SSN688)	А В В А								1 0 1 5	2,309.0 2,309.0 2,309.2	2,309 0 2,309 11,546			
L0555	PRODUCTION SUPPORT								32,512			5,017			
	Shipboard Design NRE Information Assurance Tech Refresh NRE								25,531 2,881 0			1,117 849 0			
	SHIPALT Production								4,100			3,051			
L0777	INSTALLATION EQUIPMENT								0			1,267			
	FMP INSTALL DSA			0			0		0	1		1,267			
	TOTAL NAVSEA CONTROL					0.0			32,512			22,448			
Remarks:															

### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 C. P-1 ITEM NOMENCLATURE B. APPROPRIATION/BUDGET ACTIVITY SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 313000 Submarine Communications 52L0 CONTRACTOR CONTRACT SPECS DATE RFP COST **ELEMENT OF COST** FΥ LOCATION ISSUE **AWARD** OF FIRST QTY AND METHOD UNIT AVAILABLE REVISIONS CODE LOCATION & TYPE OF PCO DATE DATE Delivery COST AVAILABLE L0078 TFDS/BSQ-9 (V) (1) 03 Brandywine Com, CA C/FFP/OPT SSC-SD May-03 Feb-04 2 433.5 YES N/A 04 TBD C/FFP SSC-SD Oct-03 Feb-04 Nov-04 8 199.3 YES N/A 05 TBD C/FFP/OPT SSC-SD Oct-05 YES Jan-05 5 326.2 N/A L0080 OE-538/BRC/RFDAC (2) 03 Sippican/GSM, MA C/FFP/OPT NUWC Feb-03 Feb-04 1,102.6 YES N/A C/FFP NUWC YES 04 TBD Jan-03 Feb-04 Feb-05 8 1,086.1 N/A 05 TBD C/FFP/OPT NUWC 22 YES Jan-05 Jan-06 834.6 N/A L0087 HIGH DATA RATE ANTENNA 03 Raytheon, MA C/FFP/OPT **SPAWAR** Dec-02 Mar-04 10 2,185.5 YES N/A 04 Raytheon, MA SS/FFP SPAWAR Jul-03 Feb-04 May-05 6 3.402.2 YES N/A SS/FFP/OPT **SPAWAR** 05 Raytheon, MA Jan-05 Apr-06 6 3,729.3 YES N/A 03 N/A L0097 SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM SSC Chasn Code J634 WX SSC Chasn Dec-02 Mar-03 35 31.4 YES (SubLAN) SSC Chasn Code J634 WX SSC Chasn Dec-03 Mar-04 51 187.0 YES N/A 05 SSC Chasn Code J634 Mar-05 YES WX SSC Chasn Dec-04 19 142.4 N/A

### D. REMARKS

<sup>1.)</sup> TFDS - FY02 was first procurement for OHIO Class submarines. FY02 cost reflects updates to ILS, testing and Land Based Evaluation Facility (LBEF) costs associated with the first two procurements years of BSQ-9(V) for the OHIO class. FY 03 cost includes Trident Class Ship Alt.

<sup>2)</sup> OE-538 FY04 contract award on existing contract; RFP for follow-on contract to be issued Jan 04.

MODIFICATION TITLE: February 2004 Time & Frequency Distribution System (TFDS)

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of Time & Frequency Distribution System (TFDS)

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	Delevan		_				-		-		-				-		=				_		
	Prior Yrs	_		<u>′ 02</u>		03		<u>′ 04</u>	FY.		. —	<u>′ 06</u>	FY Ot.			08	FY.			TC C		otal •	
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PROCUREMENT:	54	8.8	1	0.7	2	0.9	8	1.6	5	1.6	6	1.3	2	0.9	0	0.1	0	0.0			78	15.8	
Kit Quantity	34	0.0	l '	0.7		0.9	0	1.0	3	1.0	۰	1.5		0.9	U	0.1	U	0.0			10	15.6	
Installation Kits	48	0.4	6	0.1	1	0.0	2	0.1	8	0.2	5	0.2	5	0.2	2	0.1	0	0.0			77	1.1	
Installation Kits Nonrecurring	(See N		Ů	0.1	'	0.0		0.1	0	0.2		0.2	,	0.2		0.1	· ·	0.0			. ,,	1.1	
Equipment	54	8.4	1	0.3	2	0.8	8	1.5	5	0.9	6	1.1	2	0.7	0	0.0	0	0.0			78	14.0	
Equipment Nonrecurring	34	0.4	l '	0.3		0.0		1.5	3	0.5	"	1.1		0.7	U	0.0	U	0.0			, ,,	0.3	
Engineering Change Orders			(See I	Note 2)						0.5											i	0.5	
Data			(000)	1010 2)					(See N												i	0.0	
Training Equipment									(000)	.0.0 .,											i		
Support Equipment																					i		
Production Support		0.1		0.2		0.2		0.2		0.2		0.2		0.0		0.1		0.0			i	1.0	
Interm Contractor Support																					i		
Other (DSA)		0.0		0.0						0.1											i	0.1	
Installation of Hardware	48	1.7	6	0.3	1	0.0	2	0.0	8	0.2	5	0.0	6	0.0	2	0.0	0	0.0			78	2.2	
PRIOR YR EQUIP	48	1.7																			48	1.7	
FY 01 EQUIP			6	0.3																	6	0.3	
FY 02 EQUIP					1	0.0															1	0.0	
FY 03 EQUIP					(See N	Note 3)	2	0.0													2	0.0	
FY 04 EQUIP					,	,	(See N	Note 3)	8	0.2											8	0.2	
FY 05 EQUIP							,	,	(See N	lote 3)	5	0.0									5	0.0	
FY 06 EQUIP											(See I	Note 3)	6	0.0							6	0.0	
FY 07 EQUIP													(See N	lote 3)	2	0.0					2	0.0	
FY 08 EQUIP															(See N	lote 3)					0	0.0	
FY 09 EQUIP																					0	0.0	
FY TC EQUIP																					0	0.0	
TOTAL INSTALLATION COST		1.7		0.3		0.0		0.0		0.3		0.0		0.0		0.0		0.0		0.0	78	2.3	
TOTAL PROCUREMENT COST		10.6		1.1		1.1		1.7		2.1		1.4		0.9		0.2		0.0		0.0	78	19.1	
METHOD OF IMPLEMENTATION:										ADMINIS	STRATIV	E LEADT	IME:	3 mon	ths	PROD	UCTION	LEAD	TIME:		9	9 months	
	CONTR	ACT DA	TES:		FY 2002:		Aug-02			FY 2003	:	May-03			FY 2004	4:	Feb-04			FY 2005:		Jan-05	
	DELIVE	RY DAT	ES:		FY 2003:		May-03			FY 2004	:	Feb-04			FY 200	5:	Nov-04			FY 2006:		Oct-05	
				F	Y 04				FY	05				FY	06					FY 07			
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4		
							_					•					-					_	
INPUT	55			2					3	3	2			3	2				3	3			
OUTPUT	55			1	1				3	3	2			3	2				3	3			
				F	Y 08				FY	09													
INSTALLATION SCHEDULE:			1	2	3	4	_	1	2	3	4				TC	_		TOTAL					
INPUT				2														78					
OUTPUT				2														78					

- Notes/Comments:
  1.) 26 installation kits for years prior to FY00 were funded via the installation line and are not accounted for separately.
  2.) TFDS FY02 cost reflects updates to ILS for the OHIO class.
  3.) TFDS procured in FY03-08 are installed by CSRR Radio Room (Cost Code L0777) with the exception of 4 units procured in FY04.
- 4) FY05 Engineering Change Proposal (ECP) for Ethernet Connectivity.

MODIFICATION TITLE: OE-538/BRC/RFDACS L0080

COST CODE

MODELS OF SYSTEMS AFFECTED:

Installation of OE-538/BRC DESCRIPTION/JUSTIFICATION:

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

THOUSE PERUS. (\$ III THIIIIONS)	Prior Yrs	į	FY	′ 02	FY	03	FY	04	FY	<u>/ 05</u>	EY	<u>/ 06</u>	EY	<u> </u>	FY	08	FY	09		TC	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		0.9		0.4																		1.2
PROCUREMENT:	24	33.4	6	4.3	7	6.0	8	5.9	22	13.4	18	8.6	15	7.6	0	0.0	0	0.0	2	7.0	102	86.1
Kit Quantity																						
Installation Kits	11	0.4	4	0.2	6	0.2	2	0.1	11	0.4	0	0.0	0	0.0	0	0.0	0	0.0			34	1.3
Installation Kits Nonrecurring					_																(See N	,
Equipment	24	33.4	6	4.2	7	5.7	8	5.8	22	13.0	18	8.6	15	7.6	0	0.0	0	0.0	2	7.0	102	85.2
Equipment Nonrecurring Engineering Change Orders											(See I	Note 5)				3.7		2.3				6.0
Data Change Orders															(See N		(\$00.1	Note 6)				0.0
Training Equipment															(5661)	iole o)	(566)	vote 0)				
Support Equipment																						
Production Support		0.4		0.3		0.6		0.6		1.2		1.2		1.3		1.0		1.1		0.0		7.6
Other (See Note 2)	1	0.6	2	1.2	2	1.8	3	2.8	4	5.0	11	11.1	14	13.4	16	15.5	14	14.6	9	16.8	76	82.7
,																						
Other (DSA)		0.1		0.1		0.4		0.2		0.5		0.9		0.9		0.5		0.0		0.0		3.6
Installation of Hardware (See Note 1)	17	2.9	6	1.2	6	0.9	6	0.9	8	1.0	21	2.9	16	2.2	11	1.6	0.0	0.0	2	0.2	93	13.8
PRIOR YR EQUIP	17	2.9																			17	2.9
FY 01 EQUIP			6	1.2																	6	1.2
FY 02 EQUIP					6	0.9															6	0.9
FY 03 EQUIP							6	0.9	_												6	0.9
FY 04 EQUIP									8	1.0											8	1.0
FY 05 EQUIP FY 06 EQUIP											21	2.9	16	2.2							21 16	2.9 2.2
FY 07 EQUIP													16	2.2	11	1.6					11	1.6
FY 08 EQUIP															- 11	1.0	0	0.0			0	0.0
FY 09 EQUIP																	"	0.0			0	0.0
FY TC EQUIP																			2	0.2	2	0.2
TOTAL INSTALLATION COST		3.0		1.2		1.3		1.2		1.5		3.9		3.1		2.1		0.0		0.2	93	17.4
TOTAL PROCUREMENT COST		37.8		7.1		9.5		10.4		21.0		24.8		25.5		22.3		17.9		24.0	102	200.3
METHOD OF IMPLEMENTATION:										ADMINIS	TRATIV	E LEADT	IME:	3 month	s	PRODU	ICTION I	EADTIME	:			12 months
	CONTRA	ACT DAT	ES:		FY 2002:		May-02			FY 2003:		Feb-03			FY 2004	:	Feb-04			FY 2005:		Jan-05
	DELIVER		:e.		FY 2003:		May-03			FY 2004:		Feb-04			FY 2005		Feb-05			FY 2006:		Jan-06
	DELIVE	VI DAIL	.0.		1 1 2005.		iviay-05			1 1 2004.		1 60-04			1 1 2005		1 60-03			1 1 2000.		Jan-00
					Y 04					Y 05					06					FY 07		
INSTALLATION SCHEDULE:	PY	=	1	2	3	4	_	1	2	3	4	_	1	2	3	4	=	1	2	3	4	_
INPUT	27		2	1	3	2		1	3	3	1		2	6	6	6		3	6	6	2	
INFOI	21		2		3	2		'	3	3	'		2	O	O	O		3	o	U	2	
OUTPUT	26		3		3	3		1	3	3	1		2	6	6	6		3	6	6	2	
				-	Y 08				E\	Y 09												
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4				TC			TOTAL				
INPUT			1	5	4	1	-					_			2			93				
			-		-																	
OUTPUT			1	5	4	1									2			93				

Notes/Comments:

1) Nine (9) OE-538/BRC units are assigned to a rotatable pool to accommodate equipment refurbishment and do not require installation kits or funding. Pool assets were procured as follows: one in FY03, one in FY03, one in FY05, two in FY06 and four in FY 07.

2) RFDAC Procurements

3) ACU install kits complete in FY 05; FY 06-FY 09 install kits included in RFDAC procurement.

4) FY05 thru FY 09 costs reflect cancellation of iUHF Upgrade Program (PR-05).

5) FY06 unit cost variance due to mix of 0E-538 and RFDAC units being procured without inclusion of ACU variant.

6) FY 08 and 09 Engineering Change Proposal (ECP) tor GPS Anti-Jam Upgrade .

7) Unit cost variance due to increased number of masts with ACU.

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: CSRR-SSN 21, SSN 22 February 2004

COST CODE MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of CSRR on SSN 21, SSN22

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

,	Prior Yrs		<u>FY</u>	′ 02	<u>FY</u>	<u>′ 03</u>	FY 0	)4	FY	05	FY	06	FY	07	FY	08	FY	09		<u>TC</u>	I	<u>otal</u>
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity	VAR	2.6	1	5.2	1	13.1		3.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0 24.0
Installation Kits Installation Kits Nonrecurring																					0	0.0
Equipment Equipment Nonrecurring	VAR	2.6	1	5.2	1	11.6		3.2													2	22.5
Engineering Change Orders Data Training Equipment Support Equipment Production Support Interm Contractor Support Other (DSA)					2 (See I	1.5 Note 1)															2	1.5
Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP	0	0.0	0	0.0	1 (See I	0.0 Note 2)	1 (See No	0.0 ote 2)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2 0 0	0.0 0.0 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP					1	0.0	1	0.0													1 1 0 0	0.0 0.0 0.0 0.0
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP																					0 0 0	0.0 0.0 0.0
FY 09 EQUIP FY TC EQUIP																					0 0	0.0 0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	2	0.0
TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:		2.6		5.2		13.1		3.2		0.0 ADMINIS	TRATIV	0.0	TIME:	0.0 3 mont	hs	0.0	UCTION	0.0	TIME:	0.0	2	24.0 12 months
	CONTRA	CT DA	TES:		FY 2002	:				FY 2003:			TIIVIE.		FY 2004		0011011	LLA		FY 2005:		12 months
	DELIVER	RY DAT	ES:		FY 2002	:				FY 2003:					FY 2004	<b>1</b> :				FY 2005:		
INSTALLATION SCHEDULE:	PY		1	2 2	<u>Y 04</u> 3	4		1	<u>FY</u> 2	<u>05</u> 3	4		1	<u>FY</u> 2	<u>06</u> 3	4	<b>=</b> 1	1	2	<u>FY 07</u> 3	4	
INPUT	1					1																
ОИТРИТ	0		1					1														
INSTALLATION SCHEDULE:			11	2 <u>E</u>	<u>Y 08</u> 3	4		1	2 <u>FY</u>	3	4	-			TC	_		TOTAL 2	<u>-</u>			

OUTPUT

Exhibit P-3a, Individual Modification Program Unclassified Classification

2

FY 03 Engineering Change Proposal (ECP) for HF COTS/UHF Advanced Digital Waveform (ADW).
 FY 02 and FY 03 units were turnkey procurements requiring no installation costs.

MODIFICATION TITLE: CSRR-SSBN 726 (OHIO) February 2004

COST CODE

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of CSRR on SSBN 726 (OHIO) Class submarines

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Yrs	<u> </u>	FY	02	FY	03	<u>F</u>	<u> </u>	FY	05	F	Y 06	FY	07	FY	/ 08	<u>F</u>	/ 0 <u>9</u>		TC	To	otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits (Note 5) Installation Kits Nonrecurring	0	0.0	0	1.2 0.0	1	9.3	2 (See N	18.2 Note 3)	4 (See N	21.7 Note 3)	5 (See	24.6 Note 3)	2 (See N	10.2 Note 3)	2 (See N	10.4 Note 3 ) 0.0	0	0.0	2	12.0	18	1.2 106.4 0.0
Equipment Equipment Nonrecurring Production Facility Establishment TRID (ShipALT) Engineering Change Orders Data Training Equipment Support Equipment					(See N (See N	lote 2)		18.2 Note 2) Note 3)	4	21.7	5	24.6	2	10.2	2	10.4	0	0.0	2	12.0	18	101.1 2.1 1.5 1.7
Production Support Interm Contractor Support Other (DSA) Installation of Hardware PRIOR YR EQUIP FY 01 EQUIP FY 02 EQUIP FY 03 EQUIP FY 03 EQUIP	0	0.0	0	0.0	(See N	1.1 Note 4) 0.0	(See	1.1 Note 4) 0.0 1.8	2	0.2 2.4	4	0.4 5.2	5	0.5 6.6	2	0.2 2.7	2	0.2 2.8	2	0.0	18 0 0 0	2.2 1.6 29.5 0.0 0.0 0.0 1.8
FY 03 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP							,	1.0	2	2.4	4	5.2	5	6.6	2	2.7	2	2.8	1	4.0	2 4 5 2 2 0 1	2.4 5.2 6.6 2.7 2.8 0.0 4.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		1.8		2.6		5.6		7.2		2.9		3.0		8.0	18	31.1
TOTAL PROCUREMENT COST		0.0		0.0		10.4		21.1		24.3		30.3		17.3		13.3		3.0		20.0	18	139.7
METHOD OF IMPLEMENTATION:										ADMINIS	STRATI	/E LEAD	TIME:	3 mont	ths	PRODU	JCTION	LEADT	ME:			12 months
(See Note 6)	CONTRA	ACT DA	TES:		FY 2002	:				FY 2003:		VAR			FY 2004	4:	VAR			FY 2005:		VAR
	DELIVER	RY DAT	ES:		FY 2002					FY 2003:		VAR			FY 2004	4:	VAR			FY 2005:		VAR
INSTALLATION SCHEDULE:	PY	-	1	2 2	Y 04 3	4	=	1	<u>FY</u> 2	<u>′ 05</u> 3	4	_	1	<u>F)</u> 2	<u>/ 06</u> 3	4	=	1	2	FY 07 3	4	_
INPUT				1					2					2	1	1			2	1	2	
OUTPUT				1					1	1				1	2	1			1	2	1	
INSTALLATION SCHEDULE:			1	2	<u>Y 08</u> 3	4	_	1	2 <u>FY</u>	<u>′ 09</u> 3	4	_			TC	_		TOTAL	<u>.</u>			
INPUT				2						2					1			17				
OUTPUT			1	1	1					1	1				1			17				

- Notes/Comments:

  1) FY03 Procurement requires the purchase of "swing racks" to aide in the integration and installation of the CSRR equipment. These are reusable racks that will be rotated with future procurements and installations.
- 2) FY03 and FY 04 procurement also includes one (1) Trident Training Facility (TTF) equipment set. Higher cost in FY 03 due to production facility start up and TRID.

  3) Each equipment set includes: (2) Q-70 workstations, routers, cables, cable retractors, power distribution panels, cable harnesses, hubs, laptops and human machine interfaces.
- 4) FY03 and FY04 production support funding supports OHIO class hardware procurements and TRID (ShipALT).
- 5) Installation Kit costs included as prime mission hardware procurement.
- 6) CSRR equipment and integration efforts are procured under various contracts.

MODIFICATION TITLE: SCSS/CSRR-SSN 688 February 2004

COST CODE L0084

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of SCSS/CSRR on SSN 688 Class submarines

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

THANGIAL I LAN. (\$ III IIIIIIO113)																						
	Prior Yrs			<u>/ 02</u>		03		<u>/ 04</u>	FY.			<u>/ 06</u>		<u>′ 07</u>		<u>′ 08</u>		09		TC		otal .
DDT11F	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$ 12.9
RDT&E PROCUREMENT:	VAR	11.5 11.9	0	1.0 0.0	0	0.4 0.0	0	0.0	0	2.4	6	10.2	12	22.6	14	26.4	14	27.0	8	15.8	54	12.9
Kit Quantity	VAIX	11.5	0	0.0	U	0.0	0	0.0	U	2.4	U	10.2	12	22.0	14	20.4	14	21.0	0	13.0	34	110.5
Installation Kits																					0	0.0
Installation Kits Nonrecurring																					_	
Equipment	VAR	11.9									6	10.2	12	22.6	14	26.4	14	27.0	8	15.8	54	114.0
Equipment Nonrecurring										2.4												2.4
Engineering Change Orders									(See N	ote 1)	(See	Note 2)										
Data																						
Training Equipment																						
Support Equipment												4.0		4.0								
Production Support									(See N	1.5	(000	1.8	(Coo.	1.6 Note 3)								4.9
Interm Contractor Support Other (DSA)									(See IV	ote 3)	(See	Note 3) 0.0	(See	0.6		1.3		1.3				3.3
Installation of Hardware	0	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	5.6	12	11.4	14	13.7	22	22.1	54	53.9
PRIOR YR EQUIP	0	1.1		0.0	Ŭ	0.0	"	0.0		0.0	U	0.0	ľ	5.0	12	11.4	1-7	15.7	22	22.1	0	1.1
FY 01 EQUIP																					0	0.0
FY 02 EQUIP																					0	0.0
FY 03 EQUIP																					0	0.0
FY 04 EQUIP																					0	0.0
FY 05 EQUIP													_								0	0.0
FY 06 EQUIP													6	5.6	40						6	5.6
FY 07 EQUIP FY 08 EQUIP															12	11.4	14	13.7			12 14	11.4 13.7
FY 08 EQUIP FY 09 EQUIP																	14	13.7	14	13.9	14	13.7
FY TC EQUIP																			8	8.1	8	8.1
TOTAL INSTALLATION COST		1.1		0.0		0.0		0.0		0.0		0.0		6.2		12.8		15.0	_	22.1	54	57.2
TOTAL PROCUREMENT COST		13.0		0.0		0.0		0.0		3.9		11.9		30.5		39.2		42.0		37.9	54	178.4
METHOD OF IMPLEMENTATION:	•									ADMINIS	TRATI	/E LEAD	TIME:	3 month	is	PRODU	CTION	LEADTI	ME:	•		12 months
(See Note 4)	CONTRA	ACT DA	TES:		FY 2002	:				FY 2003:	:				FY 2004	4				FY 2005:		VAR
(666 11616 1)																						
	DELIVER	RYDAI	ES:		FY 2002	:				FY 2003:					FY 2004	4:				FY 2005:		VAR
				F	Y 04				FY	05				FY	06					FY 07		
INSTALLATION SCHEDULE:	PY	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4		1	2	3	4	_
INPUT																			3	3		
OUTPUT																			2	3	1	
				F	Y 08				FY	09												
INSTALLATION SCHEDULE:			1	2	3	4	_	1	2	3	4	_			TC	_		TOTAL				
INPUT				3	4	4		1	4	4	5				23			54				
OUTPUT				2	4	3		3	2	5	4				25			54				

Notes/Comments:

1) FY05 - Production Start up and ShipALT funding.

2) FY06 - TC hardware shipset procurement includes: Q-70 workstation, cable, cable harnesses, routers, hubs, and printers.

Less new hardware and cable fabrication is required for SSN 688 class (vice OHO class) as Wideband (WMP) and Narrowband (NMP) equipment requirements will have been installed.

3) Production support tunding supports 688 class hardware procurements and SHIP ALT.

<sup>4)</sup> CSRR equipment and integration efforts are procured under various contracts.

MODIFICATION TITLE: SCSS/CSRR-Non-Class Specific Test and Production Facilities February 2004

COST CODE

L0084

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of SCSS/CSRR

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

THOUSE PER W. (\$ III TILLIONS)	Prior Yrs	<u> </u>	F	<i>(</i> 02	FY	03	F,	Y 04	FY	05	FY	06	FY	07	FY	08	FY	09		TC	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		0.8																				8.0
PROCUREMENT:	0	0.0	1	6.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	8.8	30	16.8		Cont.		Cont.
Kit Quantity															0	0.0	0	0.0				
Installation Kits Installation Kits Nonrecurring															U	0.0	U	0.0				
Equipment			1	6.0			0	0.0	0	0.0		0.0		0.0	15	8.8	30	16.8		Cont.		Cont.
Equipment Nonrecurring				Note 1)			"	0.0	Ü	0.0		0.0		0.0		0.0		.0.0		00		00
Engineering Change Orders			(	,						3.0												3.0
Data									(See N	Note 2)												
Training Equipment																						
Support Equipment																						
Production Support		0.3		0.4		0.0		0.0		0.0		0.0		0.0		1.6		1.8				Cont.
Interm Contractor Support Other (DSA)						0.0																0.0
Installation of Hardware	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	4.7		Cont.		Cont.
PRIOR YR EQUIP	Ů	0.0	ľ	0.0		0.0	"	0.0	Ů	0.0	Ů	0.0	ľ	0.0	Ů	0.0				00	0	0.0
FY 01 EQUIP																					0	0.0
FY 02 EQUIP					1	0.6															1	0.6
FY 03 EQUIP																					0	0.0
FY 04 EQUIP																					0	0.0
FY 05 EQUIP FY 06 EQUIP																					0	0.0
FY 06 EQUIP FY 07 EQUIP																					0	0.0
FY 08 EQUIP																	15	4.7			15	4.7
FY 09 EQUIP																					0	0.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.6		0.0		0.0		0.0		0.0		0.0		4.7		Cont.	Cont.	Cont.
TOTAL PROCUREMENT COST		0.3		6.4		0.6		0.0		3.0		0.0		0.0		10.4		23.2		Cont.	Cont.	Cont.
METHOD OF IMPLEMENTATION:										ADMINIS	SIRAIIV	'E LEAL	) I IME:			PRODU	JCTION	LEADTIN	ΛE:			
(See Note 3)	CONTRA	ACT DA	ATES:		FY 2002	:				FY 2003	:				FY 2004	k:				FY 2005		
	DEL 11/E	D)/ D 4 3			E) / 0000					E\( 0000					E) ( 000 (					E) / 000E		
	DELIVE	RYDAI	IES:		FY 2002	:				FY 2003	:				FY 2004	ł:				FY 2005		
				_	V 04				-	. 05					. 00					EV 07		
INSTALLATION SCHEDULE:	PY		1	2 2	<u>Y 04</u> 3	4		1	2 2	<u>′ 05</u> 3	4		1	2 2	<u>/ 06</u> 3	4		1	2	FY 07 3	4	
		_					-					-					•					-
INPUT	1																					
OUTPUT	1																					
INSTALLATION SCHEDULE:			1	2 <u>F</u>	Y 08 3	4		1	2 <u>FY</u>	<u>′ 09</u> 3	4				TC			TOTAL				
							-				•	-				-						
INPUT															Cont			Cont				
OUTPUT															Cont			Cont				

Notes/Comments:

1) FY02 funded for procurement of (GOTS and COTS) equipment (terminals, workstations, cable, routers, cable harnesses) for CSRR Integration and Test Facility.

2) FY 05 ECP to incorporate full Digital Modular Radio (DMR) functionality including HF and UHF Advanced Digital Waveform (ADW).

3) CSRR equipment and integration efforts are procured under various contracts.

4) FY 08/09 reflects Tech Refresh with no associated input/output.

MODIFICATION TITLE: February 2004 High Data Rate Antenna (Sub HDR)

COST CODE L0087 MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of High Data Rate Antenna (Sub HDR)

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	Prior Yrs			Y 02		03		04		05		<u>/ 06</u>	FY		FY		<u>FY</u>			TC		otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E		24.7																	ĺ			24.7
PROCUREMENT:	31	100.0	12	27.8	10	21.9	6	20.4	6	21.3	0	0.0	0	0.0	0	0.0	0	0.0	3	10.2	68	201.7
Kit Quantity								Note 4)	•	Note 4)									ĺ			Note 2,3)
Installation Kits	31	4.3	10	2.5	7	1.2	3	0.5	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	ĺ		53	8.8
Installation Kits Nonrecurring																			ĺ			
Equipment	31	95.7	12	25.3	10	20.6	6	20.0	6	21.0	0	0.0	0	0.0	0	0.0	0	0.0	3	10.2	68	192.9
Equipment Nonrecurring							(See N	Note 5)	(See N	Note 5)									ĺ			
Engineering Change Orders										1.1	57	3.4				0.0		0.0	ĺ			4.5
Data									(See N	Note 8)	(See	Note 6)							ĺ			
Training Equipment																			ĺ			
Support Equipment															1	4.3			ĺ		1	4.3
Production Support	(See i	note 1)		1.2		1.2		1.1		1.2		0.1				0.1		0.0	ĺ			4.9
Interm Contractor Support																			ĺ			
Other (DSA)		0.4		0.6		2.2		0.7		0.5		0.4							ĺ			4.8
Installation of Hardware	13	14.1	8	8.0	11	12.2	11	12.9	6	6.9	6	7.0	0	0.0	0	0.0	0	0.0	2	3.2	57	64.3
PRIOR YR EQUIP	13	14.1	6	6.0															ĺ		19	20.0
FY 01 EQUIP			2	2.0	7	7.8													ĺ		9	9.8
FY 02 EQUIP					4	4.5	7	8.2											ĺ		11	12.7
FY 03 EQUIP							4	4.7	3	3.4									ĺ		7	8.1
FY 04 EQUIP									3	3.4	1	1.2							ĺ		4	4.6
FY 05 EQUIP									(See N	Note 7)	5	5.8							ĺ		5	5.8
FY 06 EQUIP											(See	Note 7)							ĺ		0	0.0
FY 07 EQUIP																			ĺ		0	0.0
FY 08 EQUIP																			ĺ		0	0.0
FY 09 EQUIP																			ĺ		0	0.0
FY TC EQUIP																			2	3.2	2	3.2
TOTAL INSTALLATION COST		14.4		8.5		14.5		13.6		7.3		7.4		0.0		0.0		0.0		3.2	57	69.1
TOTAL PROCUREMENT COST		114.5		37.6		37.5		35.2		31.0		11.0		0.0		4.3		0.0		13.5	68	284.4
METHOD OF IMPLEMENTATION:			•		•					ADMINI	STRATI	VE LEAD	TIME:	2 mon	hs	PROD	UCTION	LEAD	TIME:			15 months
																			Plus o	ne month	accepta	nce testing
	CONTRA	ACT DAT	ES:		FY 2002	:	Mar-02			FY 2003	:	Dec-02			FY 2004	k:	Feb-04			FY 2005		Jan-05
	DELIVER	RY DATE	S:		FY 2003	:	Jun-03			FY 2004	:	Mar-04			FY 2005	<b>5</b> :	May-05			FY 2006		Apr-06
					Y 04				FY	′ 05					06					FY 07		
INSTALLATION SCHEDULE:	PY	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4	_	1	2	3	4	
INPUT	31		2	3	4	3		2	1	2	2				2	3						
OUTPUT	30		2	3	3	4		2	2	1	3				1	3		1				
INSTALLATION SCHEDULE:			4	2 <u>F</u>	<u>Y 08</u> 3			4	2 <u>FY</u>	<u>′ 09</u> 3	4				TC			TOTAL				
INSTALLATION SCHEDULE:			1		J	4	-	1		3	4	_			10	_		TOTAL	:			
INPUT															2			57				
OUTPUT																						
OUTPUT															2			57				

Exhibit P-3a, Individual Modification Program

Unclassified

<sup>1)</sup> Production support costs were not separated in PY and are included in equipment totals

<sup>1)</sup> Production support costs were not separated in PY and are included in equipment totals
2) Eight (6) HDR units are assigned to a rotatable pool to accommodate equipment refurbishment and do not require installation funding. Pool assets are procured as follows:
one (1) in FY00, three (3) in FY03, two (2) in FY04, one (1) in FY05, and one (1) in TY0
3) Three (3) Land Based System assets are procured as follows: One (1) in FY98, one (1) in FY01 and one (1) in FY02. These do not require installation funding and are not included on the P-3A installation breako
4) Installation kits are procured one year in advance of the installs due to Long Lead Material (LLM) requirements
5) Unit cost assumes SSGN procurements in FY 04 and FY 05
6) FY06 Engineering Change Proposal (ECP) for Simultaneous GBS and EHF
7) Four (4) SSGN installs (2 in FY 05 and 2 in FY06) do not require install kits
8) FY05 Engineering Change Proposal (ECP) for SSBN Mast Mechanical Group (MMG) modifications
P.1. Shopping List Hem No 78-12 of 15

COST CODE

MODELS OF SYSTEMS AFFECTED:

L0097

DESCRIPTION/JUSTIFICATION: Installation of TIDS

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

,	Prior Yrs		<u>E</u> )	/ 02	<u>FY</u>	03	FY	04	FY	<u>′ 05</u>	FY	06	FY	07	FY	08	FY	09	. 3	<u>rc</u>	To	tal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			_			
PROCUREMENT:	4	18.5	5	11.9	35	12.4	51	11.5	19	4.4	25	5.2	31	5.2	27	5.2	23	3.6	Cont	Cont	220	77.8
Kit Quantity	(See No	ote 1)	(See	Note 4)	(See I	Note 4)		Note 4)														
Installation Kits							(See N	Note 5)														
Installation Kits Nonrecurring			_																			
Equipment - TIDS	4	18.5	5	11.9																		Cont.
Equipment - SubLAN PCs							15	2.1	19	2.7	23	3.3	26	3.9	25	3.8	23	3.6	Cont	Cont	131	19.3
Equipment Nonrecurring																					_	
SSN688 GFI/ShipALT Production						6.4		1.0		0.0		4.0									0	7.4
SSN21 GFI/ShipALT Production						3.2		0.2				1.8				1.4					0	6.5
SSBN726 GFI/ShipALT Production						1.4				4.0				4.0							0	1.4
SSGN GFI/ShipALT Production						0.3		0.8		1.6				1.3							0	4.1 0.0
SSB774 GFI/ShipALT Production Other Equipment - PC Augment					35	1.1	35	1.1													U	0.0
Other Equipment - ER Drop Augment					33	1.1	33	1.1			2	0.0	5	0.0	2	0.0					9	0.1
Other Equipment - ER Server Augment											2	0.0	3	0.0	2	0.0					3	0.1
Other Equipment  Other Equipment								6.0														
Training Equipment								0.0														
Support Equipment - EDM							1.0	0.3														
Production Support		1.0		0.9		1.5	1.0	1.3		1.1		1.9		1.3		1.0		1.9	Cont	Cont	0	11.8
Interm Contractor Support		1.0		0.5		1.5		1.5		1.1		1.5		1.5		1.0		1.5	Cont	Cont	U	11.0
Other (DSA)																						
Installation of Hardware	2	5.0	6	13.2	1	0.0	10	0.3	16	0.6	28	1.2	29	1.6	25	1.1	27	1.0	Cont	Cont	144	24.0
PRIOR YR EQUIP	_	0.0				0.0		0.0		0.0	20							1.0	Com	00	0	0.0
FY 01 EQUIP	2	5.0	2	13.2																	4	18.2
FY 02 EQUIP	_		4	0.0	1	0.0															5	0.0
FY 03 EQUIP			(See	Note 2)	(See I	Note 2)															0	0.0
FY 04 EQUIP				,		,	10	0.3	5	0.2											15	0.5
FY 05 EQUIP									11	0.4	8	0.3									19	0.7
FY 06 EQUIP										-	20	0.9	5	0.3							25	1.1
FY 07 EQUIP													24	1.3	7	0.3					31	1.6
FY 08 EQUIP															18	0.8	9	0.3			27	1.2
FY 09 EQUIP																	18	0.7	1	2.5	18	0.7
FY TC EQUIP																				Cont.	0	0.0
TOTAL INSTALLATION COST		5.0		13.2		0.0		0.3		0.6		1.2		1.6		1.1		1.0		Cont	Cont.	Cont.
TOTAL PROCUREMENT COST		24.4		26.0		13.9		13.1		6.0		8.2		8.1		7.3		6.5		Cont		113.6
NAVSEA Control						32.5		22.4														
Consolidated Control						46.4		35.5														
METHOD OF IMPLEMENTATION:										ADMINIS'	TRATIVE	LEADTIN	1E:	3 months	S	PRODU	ICTION LE	EADTIM	E:			6 months
	CONTRAC	CT DATE	ES:		FY 2002:		Dec-01			FY 2003:		Dec-02			FY 2004:		Dec-03			FY 2005:		Dec-04
	DELIVERY	Y DATES	S:		FY 2002:		Jun-02			FY 2003:		Mar-03			FY 2004:		Mar-04			FY 2005:		Mar-05
INOTALL ATION COLUEDING	D) (				FY 04					<u>/ 05</u>				FY						FY 07		
INSTALLATION SCHEDULE:	PY		1	2	3	4	-	1	2	3	4		1	2	3	4		1	2	3	4	
INPUT	9				5	5		5	5	5	1		8	6	7	7		5	8	8	8	
OUTPUT	9				5	5		5	5	5	1		8	6	7	7		5	8	8	8	
				_	FY 08				<u>F</u>	<u>/ 09</u>												
INSTALLATION SCHEDULE:			1	2	3	4	-	1	2	3	4				TC			TOTAL				
INPUT			7	6	6	6		9	6	6	6				Cont.			144				
OUTPUT			7	6	6	6		9	6	6	6				Cont.			144				

<sup>1)</sup> FY 02 includes a one time SSN 21 class SHIP ALT development charge of \$3.0M for TIDS Phase :
2) FY02 5 units: 4 units transferred to the SSGN program - no install costs required by 5210,1 unit transferred to the Land Based Test Facility (LBTF) - no install costs required by 5
3) FY03 and FY04 includes class ShipALT production charge for SSN 688, SSN21, SSBN726 and SSN774 for SubLA
4) Quantities refer to unit level submarines. Currently, there are 77 unit level submarines scheduled to receive SubLAN. Shifted 11 ship set procurements to 35 PC Augment shipsets. Requires no install c
5) Sub Ship PC Upgrades (L0094) has been included in L0097 in FY 04 and beyond. PCs are part of the ship set and not procured separate

Exhibit P-3a, Individual Modification Program

MODIFICATION TITLE: TacLan (SUBMARINE TACTICAL INTEGRATED DIGITAL SYSTEM (TIDS)) February 2004

COST CODE L00xx (NAVSEA)

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: Installation of TacLAN

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

T INANOIAE T EAN. (\$ IIT IIIIIIO113)	Prior Yrs		<u>FY</u>			02		03		<u>′ 04</u>	FY 05	FY 06	FY 07	FY 08	FY 09	TC 1		<u>Total</u>
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty	\$
PROCUREMENT:	0	0.0	0	0.0	0	0.0	0	32.5	7	21.2							7	53.7
Kit Quantity																		
Installation Kits																		
Installation Kits Nonrecurring									-	40.0								40.0
Equipment Equipment Nonrecurring									7	16.2							7	16.2
NRE-SSN688 ShipAlt Production								1.9		0.3								
NRE-SSN21ShipAlt Production								1.5		0.8								
NRE-SSBN726 ShipAlt Production								0.8		1.4								
NRE-SSGN ShipAlt Production								0.0		0.7								
NRE-SSN774 ShipAlt Production Shipboard Design NRE								25.5		1.1								
Information Assurance								2.9		0.8								
Tech Refresh NRE																		
Engineering Change Orders																		
Data																		
Training Equipment Support Equipment																		
Production Support																		
Interm Contractor Support																		
Other (DSA)																		
Installation of Hardware	0	0.0	0	0.0	0	0.0	0	0.0	1	1.3							1	1.3
PRIOR YR EQUIP FY 01 EQUIP																		
FY 02 EQUIP																		
FY 03 EQUIP																		
FY 04 EQUIP									1	1.3							1	1.3
FY 05 EQUIP																		
FY 06 EQUIP FY 07 EQUIP																		
FY 08 EQUIP																		
FY 09 EQUIP																		
FY TC EQUIP																		
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		0.0		0.0		0.0		0.0 32.5		1.3 22.4							7	1.3 55.0
METHOD OF IMPLEMENTATION:		0.0		0.0		0.0		32.5		22.4	ADMIN	ISTRATIVE LEAD	TIME:	PROD	UCTION LEADTIF	ME: 10 Mont		55.0
																	-	
	CONTRA	ACT DA	TES:		FY 200	2:				FY 2003			FY 2004:	Nov-03	FY 2005:	Nov-04		
	DELIVER	RY DATI	FS:		FY 200	2.				FY 2003			FY 2004:	Sep-04	FY 2005:	Sep-05		
	522.72.	5,			200.					2000			200	сор с .	2000.	00p 00		
						_	v 00				E) ( 2 (		=	V 05		5105		
INSTALLATION SCHEDULE:	PY				1	2 2	Y 03 3	4		1	FY 04 2 3	4	1 2	<u>Y 05</u> 3 4	1	<u>FY 06</u> 2 3	4	
INSTALLATION SCHEDOLE.		_					<u> </u>	-		- '	2 3		1 2	3 4		2 3	-	-
INPUT												2	1 4					
OUTPUT												1	2 4					
INSTALLATION SCHEDULE:					1	, <u>E</u>	<u>Y 07</u> 3	4		1	2 FY 08 3	4	1 2	Y 09 3 4		TC		TOTAL
							J	*		- 1	۷ 3			3 4	_		=	
INPUT																		7
OUTPUT																		7
Notes/Comments:																		

									F	RO	DUC	TIC	N S	СН	IEDI	ULE																DAT	E		ı	Febr	uary	2004	
																										(DC	D EX	(HIBI	T P-2	21)		<u> </u>							
	RIATION/BUDGET ACTIVITY														P-1																		ļ	SUB			٥.		
DP,N - B	A2 COMMUNICATIONS & ELECTRONIC E	QUIPMENT														3130	000 S	Subm	arine	Com	munic														52L0				
			S		ACCEP	BAL		FISC		٩R	03										F	SCA	L YEA		04									AL Y			05		
COST	ITEM/MANUFACTURER		E	PROC	PRIOR	DUE		CY (	)2				CAL	END	AR YE	EAR		03						CA	LENE	AR Y	EAR		04			<b>↓</b>		CALE	END/	AR YE	AR		05
CODE			R	QTY	то	AS OF	0	N	D	J F	М	Α	М	J	J	Α	S	0	N	D			M A	M	J	J	Α	s	0	N	D		F	М	Α	М	J	J	A
			٧		2-Oct	2-Oct	С	0	Ε .	A E	A	Р	Α	U	U	U	Е	С	0	E	Α	E   .	A F	, ч	U	U	U	E	С	0	Е		E	Α	Р	Α	U	U	U
		FY					Т	٧	С	N E	R	R	Υ	N	L	G	Р	Т	٧	С	N	3 1	R F	Y	N	L	G	Р	Т	ν	С	N	В	R	R	Υ	N	L	G
L0078	TFDS/BSQ-9	02		1		1							1																				لـــا			ш			
		03		2		2							Α									1	1																
		04		8		8																4								1	1	1	1	1	1	1	1		
		05		5		5																											Α				1		
L0080	OE-538/BRC	02		6		6							1	1	1	1	1	1															$\Box$				i		
		03		7		7				P	١.											1	1 1	1	1	1	1						$\Box$				i		
		04		8		8																4										$\Box$	1	1	1	1	1	1	1
		05		22		22																										Α	П						
																																$\Box$	$\Box$						
L0087	HIGH DATA RATE ANTENNA	02		12		12								1	1	1	1	1	1	1	1	1	1 1	1									$\Box$				ī		
		03		10		10			Α														1 1	1	1	1	1	1	1	1	1		$\Box$				ī		
		04		6		6																4											П			1	1	1	1
		05		6		6																										Α					i		
																																$\Box$	$\Box$	Π		$\Box$	iΠ		
L0097	SubLAN	03		35		0			Α		10	10	10	5																		$\Box$							
		04		51		51														Α		1	5 1	5 15	5 6							$\Box$							
		05		19		19																									Α	$\Box$		5	5	5	4		
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		l l					ост	NOV	DEC -	AN FE	B MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN F	ЕВ М	IAR AF	R MA	Y JUN	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR	MAU	JUN	JUL	AUG S

		PR	ODUCTION RA	TE		PROCUREMEN	IT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
L0078- TFDS/BSQ-9	Brandywine Com, CA	1	10	15	9 months	3 months	9 months	3 months	78	
L0080- OE-538/BRC	Sippican/GSM, MA	6	12	24	12 months	6 months	12 months	3 months	102	
L0087- High Data Rate Antenna	Raytheon, MA	1	13	28	12 months	2 months	15 months	2 months	68	
L0097- SubLAN	Various	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	

P-1 Shopping List-Item No 79- 15 of 15

Exhibit P-21 Production Schedule Unclassified

Classification

							DATE		February, 2004
APPROPRIATION/BUD	GET ACTIVITY			P-1 ITEM NOMEN	CLATURE		SUBHEAD		
OP,N - BA2 COMMUNIO	CATIONS & ELECTRO	ONIC EQUIPMENT		Satellite Communic	ations Systems	321500	52NR		
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	ТО СОМР	TOTAL
QUANTITY									
COST (in millions)	158.898	234.836	130.564	108.223	57.955	142.197	219.327	Continuing	Continuing

**PROGRAM COVERAGE**: The Satellite Communications (SATCOM) Systems P-1 line provides funds for procurement of shipboard terminal equipment for ship-to-ship, ship-to-shore and ship-to-aircraft tactical communications via earth orbiting relay satellites in the ultra high frequency (UHF), super high frequency (SHF), and extremely high frequency (EHF) bands. This includes radio frequency (RF) equipment and baseband equipment assembled and grouped into systems and subsystems structured to address specific naval communications requirements. These systems provide processors and peripheral equipment that control the RF links for message traffic, direct data transfer and secure voice communications. They are selected and oriented by communications traffic levels, types of communications and operational missions. These procurements are scheduled to meet the satellite communications requirements established by the Chief of Naval Operations (CNO) in the Fleet Communications Planning and Programming documents. The Navy SATCOM Program provides a communications architecture for seamless, rapid and reliable switching and transfer of large volumes of information (voice, video, data or imagery), including Next Generation Network (NGN) requirements both Afloat and Ashore.

### JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

SHF SYSTEMS: The Navy has been expanding its use of SHF for communications in support of Navy Tactical and Joint Task Force (JTF) Operating Forces Afloat through a phased implementation plan. In FY01, AN/WSC-6(V)2 and AN/WSC-6(V)4 were modified to a standard AN/WSC-6(V)5 configuration to provide dual RF channel capability to flag capable platforms and large combatants. In FY02-03, legacy (V) 4 antennas have been replaced to provide enhanced capability and logistical support. AN/WSC-6(V)7 and AN/WSC-6(V)9 will be utilized to accommodate expanding SHF SATCOM capability to other combatants, combat logistics force ships, and mine countermeasure support ships. Under the Submarine High Data Rate (SUB HDR) program, the Navy is exploring the technical feasibility of Defense Satellite Communications Systems (DSCS) support of wideband capabilities for attack submarines. This line also provides SHF shore based modem equipment for high data rate communications with Fleet units via the DSCS. Shore based terminals have an operational requirement to support joint, theater and Navy unique command, control, communications, support and intelligence circuits for voice, data, video and imagery to the extent they are required on SHF platforms. FY03 funds procured and installed N-STEP/TELEPORT modems to provide shore side compatibility with SHF equipped ships and to support fleet and Battle Group capacity requirements. Funding will also support ancillary hardware related to Automated Digital Multiplexing System (ADMS). The AN/WSC-6(V)7 and (V)9 contracts expire in FY04 and FY05 respectively. The AN/WSC-6(V)10 terminal will be a follow-on to these contracts to complete the required terminal fielding and will meet all the requirements of the current WSC-6 and WSC-8 terminals and the Wideband Gapfiller Satellite System.

BUDGET ITEM JUSTIFICATION SHEET (Continuation	)	DATE	February, 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Satellite Communications Systems 3215	00 52NR	

EHF TERMINALS: This program provides for the acquisition of the Navy's EHF Satellite Communications Program (NESP) terminals in four semi-concurrent phases. Phase I of the NESP program procures Low Data Rate (LDR) jam resistant, low probability of intercept EHF SATCOM terminals along with required baseband equipment, modification kits and other ancillary equipment for submarines, surface ships and shore stations. This equipment is required to meet the electromagnetic threat environment projected for the next decade. This requirement is contained in the NESP NDCP dated Apr 89 and the JROC validated Milstar ORD of Jun 92. Phase II of the NESP program procures Navy EHF Communications Controllers (NECCs) which provides for the exchange of computer-to-computer tactical communications over the survivable EHF satellite links. NECC provides network management; multiplexing and channel sharing; resource management; communications management/planning; network control/monitoring; and communications protocols such as circuit switching and packet switching. NECC requirements are outlined in the NESP NDCP dated Apr 89 and must be fully fielded with deploying battle groups and shore sites to support tactical information exchange over EHF SATCOM. Phase III of the NESP program procures Full MILSTAR LDR Operational Capabilities (FMLOC). FMLOC efforts include Agile Beam Management (ABM), Over-the-Air-Rekey (OTAR), and In-Band Control (IBC) capabilities required by the JROC validated Milstar ORD. Additionally, the Processor Upgrade Program (PUP) must be implemented to support terminal throughput and memory requirements of Phase III capabilities. Phase III efforts will provide essential EHF operational communications capabilities with the current MILSTAR satellites. Similarly, IBCs will provide interoperable voice communications on all EHF satellites (MILSTAR, UHF Follow-On (UFO), and FLTSAT EHF Package (FEP)). Phase III also includes procurement of Interim Polar modification kits. An EHF polar communications capability is available using an EHF package on a classified host in the Molniya orbit. To use this polar capability, terminals will require minor modifications. In addition, shore gateways are necessary to provide connectivity from the Interim Polar satellite to other EHF satellite constellations. Phase IV of the NESP program consists of a Medium Data Rate (MDR) capability which will provide the only protected (jam resistant and low probability of intercept/detection) MDR communications from 4.8 kilobits per second (Kbps) to 1.544 megabits per second (Mbps) to all major fleet combatants with MILSTAR Satellites 4-6. To meet initial MDR capability requirements for the fleet, the Navy procured MDR appliqués which is retrofitted into existing legacy LDR terminals. The requirement for MDR is outlined in the JROC validated Milstar ORD. Prior to receiving the MDR appliqué, existing legacy LDR terminals must have Phase III upgrades due to processing throughput and memory requirements of MDR. Remaining MDR requirements will be satisfied through procurement of the LDR/MDR Follow-On Terminal (FOT) which incorporates LDR/MDR capabilities into a consolidated terminal that provides the same EHF functionality as a legacy LDR terminal with an MDR appliqué. The LDR/MDR FOT will have Phase III FMLOC capabilities incorporated into their baseline. The LDR/MDR FOT Antenna Group includes procurement of Radar Cross Section (RCS) modification kits to meet Navy Passive Counter Measure Ships (PCMS) RCS Specifications. During Phase IV, a Time Division Multiple Access (TDMA) Interface Processor (TIP) will be procured and integrated into the NECC. The purpose of TIP is to provide near real-time data transfer between Tactical Data Processors (TDP) together with support for ADNS data exchange using a common suite of EHF Services. This capability is necessary for effective utilization of the anti-jam/low probability of intercept (AJ/LPI) and survivable capabilities of the EHF LDR/MDR system.

BUDGET ITEM JUSTIFICATION SHEET (Continuation	1)	<b>DATE</b> February, 20
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Satellite Communications Systems 321500	52NR

COMMERCIAL SATELLITES: Lessons learned from Desert Storm documented the necessity of an alternate commercial communications service for logistics and operational support requirements to reduce saturation of communications on military tactical satellites. ASD(C3I) in a letter of 8 Nov 1993, directed the use of commercial satellite (COMMERSAT) to augment current and future Military Satellite Communications (MILSATCOM) systems. This relieved the congestion on military tactical satellite communications systems while enhancing the overall Navy tactical communications capacity and reducing competition with tactical data on limited tactical satellite assets. The COMMERSAT program uses commercial off-the-shelf (COTS)/non-developmental item (NDI) equipment, software, and service with minimal adaptation for the naval environment. Variants of commercially available International Maritime Satellite (INMARSAT) terminals will be procured in the next few years. Various types are required to satisfy different requirements on flagships, aircraft carriers, amphib ships, combatants and auxiliary ships. The COMMERSAT Operational Requirements Document (ORD) mandates INMARSAT M terminals on Mine Counter-Measures ships. Since INMARSAT M terminals are no longer in production, INMARSAT B terminals will be procured and installed for Mine Counter-Measure ships. Earlier INMARSAT A installations will be upgraded to INMARSAT B, B HSD or dual B systems. There will also be procurement of additional shore equipment, and modifications to established INMARSAT systems for 128 kbps wideband capability, thus providing greater capability to the Fleet. The AN/WSC-8 capability aboard surface combatants will be implemented using the SHF AN/WSC-6(V)9 suite of equipment.

GLOBAL BROADCAST SERVICE (GBS): GBS is the Navy portion of a joint program with the Air Force as Executive Service. GBS augments other (MILSATCOM) systems and provides a continuous, high speed, one way information flow of high volume data to units ashore, afloat and special operations. GBS supports routine operations, training and military exercises, special activities, crises, situational awareness, weapons targeting, reconnaissance and transition to and conduct of opposed operations short of nuclear war. GBS provides the capability to quickly disseminate large information products to various joint, small combat and combat support elements. FY04 and FY05 funds procure and install receiving equipment in various configurations customized to each type of ship for Phase II of the GBS program in support of UHF follow-on (UFO) satellite flights 8, 9, and 10. For ship and submarine receive suites, antennas and ancillary equipment such as Asynchronous Transfer Mode (ATM) in-line encryptors will be procured. Shipboard and submarine receive broadcast manager (RBM) equipment will be procured through the GBS Systems Contract executed by the Air Force. FY04 and FY05 continues procurement and installation of shore terminals to support ship, submarine, and shore training and integration facilities. For shore receive suites, all components including antennas and RBMs will be procured through the GBS Systems (Air Force) contract. A Mission Need Statement for GBS was signed, 3 AUG 1995, and an Operational Requirements Document (ORD) was signed on 30 April 97 and was updated with revised Navy Force Structure by JROC on 23 May 01.

# UNCLASSIFIED

# CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET (Continuation)			DATE	February, 20
PROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD	
N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Satellite Communications Syste	321500	52NR	
NI Control System: The Joint UHF Military Satellite Communications Network Interice as directed by the Military Communications Electronics Board (MCEB). The JI SATCOM voice and data resources (channels and Time Division Multiple Access (ethree Naval Computer and Telecommunications Area Master Station (NCTAMS) grated system consists of two major subsystems. The first subsystem provides connections between the control stations and remote users and is known as the Network	MINI Control System will provide dynamic centralization of time slots) via a globally integrated system sites plus Naval Computer and Telecommunication mmunications resource planning and management ork Management System (NMS). Based on a revisation of the state of	zed contro of four co ons Statior t via secur sed ORD, 6	l of joint 5-kHz ntrol stations to n (NCTS) Guan e Wide Area No 64 NMS units a	and 25-kHz UH b be located at e n. The globally etwork (WAN) ire required; one
th control station plus 60 remote units to be installed at ORD-defined locations. The S and the UHF MILSATCOM user terminals worldwide and is known as the Channe continue the hardware procurement and installation for the four control stations and installation for the four control stations are continued to the four control stations are continued to the four control stations are continued to the four control stations are continued to the four control stations are continued to the four control stations.	el Controller. There are 56 channel controllers red			

			T						I = = - = -		
	ATION ACTIVITY			NOMENCLA		004500			SUBHEAD		
P,N - BA-2	2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT		Satellite Co	ommunicatio		321500			52NR		
					ST IN THOU	SANDS O			I		
COST		l ID		UNIT	FY 2003 UNIT TOTAL		FY 2004	TOTAL	 	FY 2005	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	OTV	UNIT	COST	OTV	UNIT	COST
CODE	ELEMENT OF COST	CODE	QIT	COST	COST	QTY	COST	COST	QTY	COST	<u> </u>
NR101	MINI DAMA				4,600			0			
NR101	MINI DAMA Field Change Upgrade Kits	Α			4,600			0			i
1411101	Will brain the ordinge opgrade tale				4,000			Ŭ			l
NR105	5/25 KHz SATCOM				7,947			0			ĺ
NR105	5/25 KHz SATCOMUHF Modems	Α	18	116.4	2,096						l
NR105	5/25 KHz SATCOMDMR	В			,		ed to BLI 30	10 beginning F	Y04)		l
NR105	TRIDENT - MD-1324A Modem		14	90.4	1,265	,			'		l
NR105	TRIDENT - MD-1324A Modem Ship Alt kits		14	327.6	4,586						
NR106	SHF SATCOM				15,586			72,997			7,78
NR106	SHF TerminalsAN/WSC-6(V)5 Mod kits - Ship Upgrades	Α	Var	Var.	285	Var	Var.	1,385			1
NR106	SHF Terminals AN/WSC-6 7 Ft Antenna - Ship	Α	10	216.3	2,163	9	306.2	2,756			
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship	Α	6	1,308.0	7,848		921.3	14,741			
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship Upgrades	Α				Var.	Var.	5,526			
NR106	SHF TerminalsAN/WSC-6(V)7 - Ship (Backfits)	Α	6	83.3	500	12	88.0	1,056			
NR106	SHF TerminalsAN/WSC-6(V)7 - Shore	Α				1	80.0	80			l
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship	В	3	1,277.0	3,831	20	1,637.0	32,739			
NR106	SHF Terminals AN/WSC-6(V)7 Modems	Α	36	15.1	543						
NR106	SHF Terminals AN/WSC-6(V)9 Modems - Shore	Α	20	20.8	416						
NR106	SHF Terminals EBEM Modems - Ship	Α				119	10.1	1,200	1	10.0	1
NR106	SHF Terminals EBEM Modems - Shore	Α				106	14.2	1,510		11.3	67
NR106	SHF TerminalsAN/WSC-6(V)10 Ship	В				4	2,434.5	9,738		2,440.0	2,44
NR106	SHF TerminalsAN/WSC-6(V)10 - Ship Upgrades	В				1	2,266.0	2,266	2	2,328.0	4,65

Remarks:

# MINI DAMA

FY03 Congressional Plus-up.

All US MINI DAMA units receive this software upgrade

# 5/25KHz

Beginning in FY04, DMR transfers to BLI 3010 and transitions to Joint Tactical Radio System M/F.

## SHF SATCOM

AN/WSC-6(V)10 Ship Upgrades were formerly identified as AN/WSC-6(V)9 Ship (Backfits)

### UNCLASSIFIED

### CLASSIFICATION

	COST ANALYSIS										DATE		February, 2004
APPROPRIAT	ION ACTIVITY					P-1 ITEM NO	MENCLATURE				SUBHEAD		
OP,N - BA-2 C	OMMUNICATIONS AND ELECTRONIC EQUIPMENT					Satellite Comr	nunications Syst	tems	321500		52NR		
						TOTAL COST	IN THOUSAND	S OF DOL	LARS	•			
				PY		FY 2003	}		FY 2004			FY 2005	
COST		ID		TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
NR107	EHF SATCOM			652,352			18,331			33,927			8,028
NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	Α	275	467,033	11	1,287.2	14,160	39	752.4	29,343	Var.		1,894
NR107	EHF TerminalsAN/USC-38(V) FOT - Shore	Α	70	105,247	Var.		773						
NR107	EHF TerminalsNECC - Ship	Α	225	28,697	12	232.3	2,788	21	180.3	3,786	10	543.6	5,437
NR107	EHF TerminalsNECC - Shore	Α	57	6,447	Var.		550	6	133.0	798	3	232.4	697
NR107	EHF TerminalsMDR Appliques - Ship	Α	61	35,725			60						
NR107	EHF TerminalsInterim Polar Gateway - Shore	Α	2	5,703									
NR107	EHF TerminalsPolar Equipment			3,500									
NR112	Commercial Satellite			2,874			2,059			3,022			3,309
NR112	Comm. SatelliteINMARSAT B (Ship)	Α	1	96	9	63.4	571						
NR112	Comm. SatelliteINMARSAT B (Ship) Equip. Upgrade - Handover	Α	17	559	1	37.0	37						
NR112	Comm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband	Α			20	46.1	921	80	28.8	2,302	86	29.2	2,514
NR112	Comm. SatelliteINMARSAT B (Shore)		4	308									
NR112	Comm. SatelliteINMARSAT B HSD KITS	Α	8	144	4	18.0	72	8	17.9	143			
NR112	Comm. SatelliteC band/CWSP (Ship)	Α			Var.		458						
NR112	Comm. SatelliteC band/CWSP (Shore)	Α	9	1,767				Var.		577	Var.		795
NR117	Global Broadcast Service (GBS)			31,775			8,569			22,753			9,162
NR117	Global Broadcast Service Single (Receive Suite)	В	17	9,146									
NR117	Global Broadcast ServiceDual (Receive Suite)	В	13	8,204									
NR117	Global Broadcast Service - Conversion Kits/Backfits/Upgrades	В	6	2,623	0		8,569	Var.		19,980	15	610.8	9,162
NR117	Global Broadcast ServiceSubs (Receive Suite)	В	32	9,429									
NR117	Global Broadcast Service - Shore	В	15	2,373				7	396.1	2,773			
NR118	JMINI Control System			12,624			3,954			7,659			6,245
NR118	JMINI Control System - NMS	Α	22	12,624	7	564.9	3,954	12	638.3	7,659	10	624.5	6,245
Remarks:		]											<u> </u>

### **EHF Terminals**

Fluctuations in unit price are a result of the mix between Ship, Shore and Sub procurements. Unit costs include necessary RCS radome kits, field change kits and ancillary equipment.

AN/USC-38 (V) FOT Quantities of "Var." in FY03 and FY05 reflect procurement of supporting ancillary equipment.

NECC FY03 and out includes MDR (TIP) capability.

FY05 NECC unit cost increase due to procurement of TIP card for integration into NECC chassis

MDR PY-FY03 procurements include field change kits and ancillary equipment required for installations.

INMARSAT B Equipment upgrades - The antenna handover upgrade will modify the dual antenna system to include handover capability. The 128 Kbps wideband upgrade will increase the modems channel throughput capability from 64Kbps to 128Kbps. FY03 - INMARSAT B Equipment upgrades (128 Kbps) unit cost includes \$300K NRE

FY04 - Procurement quantities consist of PAC transponder and gateway equipment, Norfolk/Martelsham T-3 equipment, second Hawaii gateway hardware, modems and infrastructure upgrades. FY05- Procurement quantities consist of European gateway equipment and modems

### GBS

PY - GBS Unit costs vary due to mix of Ship, Submarine and Shore terminal configurations and to quantity discounts afforded by other Services buys per year.

GBS - Conversion Kits/ Backfits/ Upgrades. Six equipment conversion kits purchased in FY02 to convert twelve (12) PY single antenna assets to six (6) dual antenna configurations. In FY03-04, Ship and Shore "various" backfit and upgrade kits will be purchased and installed

GBS - FY05 quantity is IP backfits only. 17 sub backfits and 4 dual antenna system backfits. DD FORM 2446, JUN 86

	COST ANALYSIS										DATE		February, 2004		
APPROPRIATIO	N ACTIVITY					P-1 ITEM NO	MENCLATURE				SUBHEAD				
OP,N - BA-2 COM	MMUNICATIONS AND ELECTRONIC EQUIPMENT					Satellite Comr	nunications Syst	tems	321500		52NR		ļ		
						TOTAL COST	IN THOUSAND	S OF DOLLA	RS		·				
				PY		FY 2003			FY 2004						
COST CODE	ELEMENT OF COST	ID CODE	QTY	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
NR555	PRODUCTION SUPPORT			106,984			11,436			17,415	i		13,308		
NR777	INSTALLATION FMP Installation FMP DSA - SATCOM Ship Non-FMP Installation			<b>534,052</b> 469,969 24,233 64,083			<b>72,721</b> 68,390 7,518 4,331			<b>77,062</b> 66,472 12,808 10,590	2		<b>82,730</b> 74,638 6,498 8,092		
	TOTAL BLI 3215 PBD 172 Deferral			1,346,184			145,203 13,695			234,836			130,564		
	SPAWAR TOTAL			1,346,184			158,898			234,836	;		130,564		
	NFN Shore Comm Equip and Fly Away Terminals - DERF			11,459											

PROC	CUREMENT HISTORY AND PLANNING									A. DATE		February, 2004
B. API	PROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM N	OMENCLATURE					SUBHEAD		
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Commun	nications Systems			321500		52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NR101	MINI DAMA Field Change Upgrade Kits	03	Titan, CA	FFP	SPAWAR		Jun-04	Jun-05			YES	N/A
NR105	5/25 KHz SATCOMUHF Modems	03	Viasat, CA	IDIQ	SPAWAR		Nov-02	Jul-03	18	116.4	YES	N/A

## D. REMARKS

FY03 - MINI DAMA contract award pending JTRS waiver

B. API	PROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOME	NCLATURE					SUBHEAD		
OP,N - B	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Communication	ons Systems			321500		52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
	SHF Terminals AN/WSC-6 7 Ft Antenna - Ship SHF Terminals AN/WSC-6 7 Ft Antenna - Ship	03 04	Raytheon, Boston, MA Raytheon, Boston, MA	C/FFP (OPT) C/FFP (OPT)	SPAWAR SPAWAR		May-03 Feb-04	Feb-04 Nov-04	10 9	216.3 306.2	YES YES	N/A N/A
	SHF TerminalsAN/WSC-6(V)7 - Ship SHF TerminalsAN/WSC-6(V)7 - Ship	03 04	Raytheon, Boston, MA Raytheon, Boston, MA	C/FFP (OPT) C/FFP (OPT)	SPAWAR SPAWAR		May-03 Feb-04	May-04 Feb-05	6 16	1308.0 921.3	YES YES	N/A N/A
	SHF TerminalsAN/WSC-6(V)7 - Ship (Backfits) SHF TerminalsAN/WSC-6(V)7 - Ship (Backfits)	03 04	Raytheon, Boston, MA Raytheon, Boston, MA	C/FFP (OPT) C/FFP (OPT)	SPAWAR SPAWAR		May-03 Feb-04	May-04 Dec-04	6 12	83.3 88.0	YES YES	N/A N/A
NR106	SHF TerminalsAN/WSC-6(V)7 - Shore	04	Raytheon, Boston, MA	C/FFP (OPT)	SPAWAR		Feb-04	Feb-05	1	80.0	YES	N/A

## D. REMARKS

FY03 - Increased unit cost to the (V)7 terminal price is due to the inclusion of the NRE for the Dual Channel (V) 7 ECP and (V) 7 Dual channel terminals

FY04 - Increased unit cost to the 7 ft antenna is due to the Sole Source modification to the contract.

B. APP	ROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMEN	ICLATURE					SUBHEAD		
OP,N - BA	2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Communications Systems 321500						52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship	03	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Jun-03	Apr-04	3	1,277.0	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)9 - Ship	04	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Feb-04	Jun-05	20	1,637.0	YES	N/A
NR106	SHF Terminals AN/WSC-6(V)7 Modems	03	Raytheon, MA	C/FFP (OPT)	SPAWAR		May-03	May-04	36	15.1	YES	N/A
NR106	SHF Terminals AN/WSC-6(V)9 Modems - Shore	03	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Aug-03	Aug-04	20	20.8	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship	02	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Jul-02	Mar-04	10	139.0	YES	N/A
	SHF Terminals EBEM Modems - Ship	04	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Apr-04	Oct-04	119	10.1	YES	N/A
NR106	SHF Terminals EBEM Modems - Ship	05	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Dec-04	Jun-05	1	10.0	YES	N/A
NR106	SHF Terminals EBEM Modems - Shore	04	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Apr-04	Oct-04	106	14.2	YES	N/A
NR106	SHF Terminals EBEM Modems - Shore	05	VIASAT, Carlsbad, CA	C/FFP (OPT)	CECOM		Nov-04	May-05	60	11.3	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)10 Ship	04	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Feb-04	Jun-05	4	2,434.5	YES	N/A
	SHF TerminalsAN/WSC-6(V)10 Ship	05	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Dec-04	Dec-05	1	2,440.0	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)10 - Ship Upgrades	04	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Feb-04	Jun-05	1	2,266.0	YES	N/A
NR106	SHF TerminalsAN/WSC-6(V)10 - Ship Upgrades	05	Harris Corp, Melbourne, FL	C/FFP (OPT)	SPAWAR		Dec-04	Dec-05	2	2,328.0	YES	N/A

# D. REMARKS

FY02 - Unit cost of the EBEM Modems - Ship includes NRE.

FY04 - Increased unit cost to the (V)9 terminal price is due to the inclusion of Ka-Ready capability.

# UNCLASSIFIED

# CLASSIFICATION

B. APPR	OPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOM	ENCLATURE					SUBHEAD				
P,N - BA2	2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Communica	itions Systems			321500		52NR				
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE		
NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	02	Raytheon, Marlborough, MA	C/FFP (OPT)	SPAWAR		Jan-02	Jul-03	22	1029.0	YES	N/A N/A		
NR107 NR107	EHF TerminalsAN/USC-38(V) FOT - Ship EHF TerminalsAN/USC-38(V) FOT - Ship	03 04	Raytheon, Marlborough, MA Raytheon, Marlborough, MA	C/FFP (OPT) C/FFP (OPT)	SPAWAR SPAWAR		Dec-02 Mar-04	Jun-04 Sep-05	11 39	1287.2 752.4	YES YES	N/A N/A		
NR107	EHF TerminalsAN/USC-38(V) FOT - Shore	02	Raytheon, Marlborough, MA	C/FFP (OPT)	SPAWAR		Jan-02	Mar-04	1	1852.0	YES	N/A		
NR107	EHF TerminalsNECC - Ship	04	SPAWAR System Center	Work Request	SPAWAR		Nov-03	Mar-04	21	180.3	YES	N/A		
NR107	EHF TerminalsNECC - Ship	05	SPAWAR System Center	Work Request	SPAWAR		Nov-04	Mar-05	10	543.6	YES	N/A		
NR107	EHF TerminalsNECC - Shore	04	SPAWAR System Center	Work Request	SPAWAR		Nov-03	Mar-04	6	133.0	YES	N/A		
NR107	EHF TerminalsNECC - Shore	05	SPAWAR System Center	Work Request	SPAWAR		Nov-04	Mar-05	3	232.4	YES	N/A		

## D. REMARKS

FY02 EHF terminal AN/USC-38(V) Ship and Shore are on the same contract and have 12 months from the date of first delivery to complete the contract. The shore procurement will be delivered last.

# UNCLASSIFIED CLASSIFICATION

FKU	CUREMENT HISTORY AND PLANNING									A. DATE		February, 2004
B. AP	PROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NO	OMENCLATURE					SUBHEAD		
OP,N - E	A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT			Satellite Commun	nications Systems	i		321500		52NR		
COST	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
	Comm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband Comm. SatelliteINMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband	04 05	Mackay Comm Edison, NJ Mackay Comm Edison, NJ	C/FP (OPT) C/FP (OPT)	SSC/SD SSC/SD		Nov-03 Nov-04	Feb-04 Feb-05	80 86	28.8 29.2	YES YES	N/A N/A
NR112	Comm. SatelliteINMARSAT B HSD KITS	04	D&E Tech Wallingford, CT	C/FP (OPT)	SSC/CHS		Nov-03	Feb-04	8	17.9	YES	N/A
	Global Broadcast Service - Backfits/Upgrades Global Broadcast Service - Backfits	04 05	Raytheon, Marlborough, MA & Reston, VA Raytheon, Marlborough, MA & Reston, VA	CPAF/(OPT) CPAF/(OPT)	USAF USAF		Feb-04 Feb-05	Aug-04 Aug-05	Var. 15	610.8	YES YES	N/A N/A
NR117	Global Broadcast Service - Shore	04	Raytheon, Marlborough, MA & Reston, VA	CPAF/(OPT)	USAF		Feb-04	Oct-04	7	396.1	YES	N/A
	JMINI Control System - NMS JMINI Control System - NMS	04 05	SAIC, San Diego, CA SAIC, San Diego, CA	CPFF CPFF	SSC-SD SSC-SD		Dec-03 Oct-04	Jul-04 Jul-05	12 10	638.3 624.5	Yes Yes	N/A N/A

D. REMARKS:

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR101
MODELS OF SYSTEMS AFFECTED: MINI DAMA

DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25KHz UHF Communications capability for submarines and other disadvantaged users.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)															
	PY Qty	FY 02 \$1 Otv	FY 03		Y 04 FY		FY 06	FY 07		<u>′08</u>	FY 09	TC TC	sl	<u>Total</u> Qtv	اء
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$ Qty	\$ Qty	\$ Qty	\$	Qty \$	Qty	\$ Qty	\$ Qty	\$ C	tty \$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring	77	22.7 0	0.0	0.0 0	0.0	0.0	0	0.0 0	0.0	0.0	0.0	0	0.0	77	22.7
Field Change Upgrade Kits Engineering Change Orders Data	150	10.0	2.5 3.6	1.8 2.8										150	14.3 6.4
Training Equipment Production Support Other (DSA) Interim Contractor Support			0.5 0.0	0.0											0.5
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	77 77	10.2 0 10.2	0.0 0	0.0 0	0.0 0	0.0	0	0.0 0	0.0 0	0.0	0 0.0	0	0.0		10.2 10.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		10.2	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0		10.2
TOTAL PROCUREMENT		42.9	6.6	4.6	0.0	0.0		0.0	0.0	0.0	0.0		0.0		54.1
METHOD OF IMPLEMENTATION:		ADMINISTRA	TIVE LEAD-TIME					PRODUCTIO	N LEAD-TIME:	12 N	Months				
CONTRACT DATES:	FY 2003:	Jun-04		FY 200	4: NA			FY 2005:	NA			FY 2006:	N.	A	
DELIVERY DATES:	FY 2003:	Jun-05		FY 200	4: NA			FY 2005:	NA			FY 2006:	N.	A	
INSTALLATION SCHEDULE:	PY	1	<u>FY 04</u> 2 3	4	1	2 2		1	1	<u>FY 06</u> 2	3 4	<u>-</u>			
INPUT	77														
OUTPUT	77														
INSTALLATION SCHEDULE:		1	<u>FY 07</u> 2 3	4	1	<u>FY</u> 2	08 3 4	4	1	<u>FY 09</u> 2	3 4	. <u> </u>	TC	<u>101</u>	<u>ral</u>
INPUT													0	7	7
OUTPUT													0	7	7

Notes/Comments

PY - No installation required for upgrade kits.

FY02 and FY03 - Congressional Plus-up. Field Change Upgrade kits do not require installation.

All MINI DAMA units will receive software upgrade kits.

Satellite Communications Systems

MODIFICATION TITLE: COST CODE

NR105

MODELS OF SYSTEMS AFFECTED:

5/25 KHz SATCOM--UHF Modems

DESCRIPTION/JUSTIFICATION: Provides the modulation demodulation capability at 5 KHz bandwidth in the UHF spectrum

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																				
	PY Qty	\$ Q	02	FY 03	\$	FY 04		Y 05	م اه	FY 06	FY O		FY 0		FY!		TC TC	ام	<u>Tota</u>	
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$ Q	ty	\$ Qty	\$	Qty	\$	Qty	\$ Q:	Dy	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders	410	17.3	1 0	.1 18	2.1	0	0.0	0	0.0	0	.0 0	0.0	0	0.0	0	0.0	0	0.0	429	19.5
Data Training Equipment Production Support Other (DSA)		1.8 0.9	2 0 0 0	.8	0.1 0.1														2	0.2 2.6 1.2
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP	404 404	12.7 T	3 1	.3	0.7	0	0.0	0	0.0	0	.0 0	0.0	0	0.0	0	0.0	0	0.0	429 410 1 18 0 0 0 0 0	15.0 14.0 0.2 0.7 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		12.7	1		0.7		0.0		0.0	0		0.0		0.0		0.0		0.0		15.0
TOTAL PROCUREMENT		32.6	2		3.0		0.0		0.0	0		0.0		0.0		0.0		0.0		38.5
METHOD OF IMPLEMENTATION:				ADMINIS'	TRATIVE L	EAD-TIME:	6 N	1onths	PRO	DUCTION LI	EAD-TIME:		8 Months							
CONTRACT DATES:	FY 2003:	No	v-02		ı	FY 2004:	NA				FY 2005:		NA			F	FY 2006:			
DELIVERY DATES:	FY 2003:	Jı	ul-03		ı	FY 2004:	NA				FY 2005:		NA			F	FY 2006:			
INSTALLATION SCHEDULE:	PY			<u>Y 04</u> 3	4		_	1	<u>FY 05</u> 2 3	4			1	<u>FY 06</u> 2	3	4				
INPUT	429																			
OUTPUT	429																			
INSTALLATION SCHEDULE:			<u> </u>	<u>Y 07</u> 3	4			1	<u>FY 08</u> 2	4	_	•	1	<u>FY 09</u> 2	3	4	_	TC	;	<u>TOTAL</u>
INPUT																		0		429

321500

Notes:

FY02: Two (2) units procured as training equipment do not require SPAWAR install funds

MODIFICATION TITLE: Satellite Communications Systems 321500 NR105

COST CODE MODELS OF SYSTEMS AFFECTED:

5/25 KHz SATCOM--DMR

DESCRIPTION/JUSTIFICATION: Provides 5KHz and 25 KHz UHF bandwidth capability and provides the framework for meeting the current and future SATCOM and Line of Sight (LOS) communications requirements in the 20MHz to 2 GHz spectrum.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MI	LESTUNES																					
FINANCIAL PLAN: (\$ in millions)	51.4		=1.00		<b>5</b> 14.00				E1 / 0 E		=14.00		=> / 0=		=1.00		=1/0	_				
	PY Qty	s	FY 02 Qty	\$	FY 03 Qty	s.	FY.	<u>04</u> \$	FY 05 Qty	\$I	FY 06	s	FY 07	<u>′</u> sl	FY 08		FY 0	<u>9</u> \$1	TC Qty	اء	04	<u>Total</u> \$
RDT&E	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																						
Equipment Equipment Nonrecurring (Racks)	41 58	26.2 3.3	Var	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	41 58	26.5 3.3
Engineering Change Orders	58	3.3					(TRANSEE	RRED TO	 BLI 3010 B	I EGINNING F	=Y04)										56	3.3
Data							(110 11401 L	ITATED TO			104)											
Training Equipment																						
Production Support Other (DSA)		12.6 1.8		2.3 0.0																		14.9 1.8
Interim Contractor Support									_													
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP	0	0.0	28 28	0.0 0.0	1 1	0.0 0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	29 29 0	0.0
FY 03 EQUIP																					0	0.0
FY 04 EQUIP																					0	0.0
FY 05 EQUIP																					0	0.0
FY 06 EQUIP FY 07 EQUIP																					0	0.0
FY 08 EQUIP																					Ö	0.0
FY 09 EQUIP																					0	0.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.0 43.9		0.0 2.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0 46.5
METHOD OF IMPLEMENTATION		45.5			ADMINIST		EAD-TIME		2 Months		ODUCTIO		D-TIME:		3 Months	0.0		0.0		0.0		40.5
CONTRACT DATES:	FY 2003:		NA				FY 2004:		NA			F	FY 2005:	1	NA			ı	FY 2006:			
DELIVERY DATES:	FY 2003:		NA				FY 2004:		NA			F	Y 2005:	1	NA				FY 2006:			
INSTALLATION SCHEDULE:	PY	-	1	2 <u>FY</u> (	<u>04</u> 3	4			1	<u>FY 05</u> 2		4		_	1	2 2	<u>Y 06</u> 3	4				
INPUT	29																					
OUTPUT	29																					
				FY	<u>07</u>					FY 08						FY	09					
INSTALLATION SCHEDULE:		-	1	2	3	4			1	2	3	4		-	1	2	3	4	-	TC		TOTAL
INPUT																				0		29

### Notes/Comments

OUTPUT

Note 1: DMR unit includes four channels per box.

Note 2: DMR racks included under Equipment Non-Recurring line.

FY02 procurements consist of ancillary equipment for the SSN 21 and SSN 23 (each kit includes one 500 watt HF power amplifier and one Sunair 9000 HF transceiver), SSN 21 receives one set and SSN23 receives two sets. FY02: 24 DMRs provided to Military Sealift Command (MSC), 2 DMR units provided to SSC-SD lab, 2 DMR units provided to SSC-CH lab. No installation cost to SPAWAR.

FY03 and prior implemented under the Digital Modular Radio Program as JTRS-M/F Block 0.

FY03 - Pentagon DMR unit installed at no cost to SPAWAR

FY04 - Balance of DMR installations transitioned to BLI 3010 (JTRS-M/F) in FY04

29

321500

MODIFICATION TITLE: MD-1324A Modem (Trident IP)

COST CODE NR105

MODELS OF SYSTEMS AFFECTED: TRIDENT - MD-1324A Modem

DESCRIPTION/JUSTIFICATION: Procurement of Modems for Trident IP

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	<u>PY</u>	_	FY 0		FY			<u>′ 04</u>		<u>05</u>		<u>′ 06</u>	<u>FY</u>		FY			09		<u>-c</u>	Tota	
DDT4F	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment/Ship Alt Kits Engineering Change Orders Data	1	0.1	2 2	0.1 0.9	14 14	1.3 4.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17 16	1.5 5.5
Training Equipment Support Equipment Production Support DSA Installation of Hardware PRIOR YR EQUIP	1 1	0.1 1.3 0.0 0.0	2	0.3	14	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17 1	0.3 1.3 0.0 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP		0.0	2	0.0	14	0.0															2 14 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP																					0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL PROCUREMENT COST		1.4		1.3		5.9		0.0		0.0		0.0		0.0		0.0		0.0		0.0		8.5
METHOD OF IMPLEMENTATION:							ADMINIS'	FRATIVE L	EAD-TIME	:					PRODU	CTION I	_EAD-TIM	E:	6 months			
CONTRACT DATES:	FY 2003:		Feb-03		F	Y 2004:		NA			FY 2005:		NA		FY 2006	i:						
DELIVERY DATES:	FY 2003:		Aug-03		F	Y 2004:		NA			FY 2005:		NA		FY 2006	:						
INSTALLATION SCHEDULE:	PY		1	<u>FY</u> 2	<u>04</u> 3	4			1	<u>FY</u> 2	<u>′ 05</u> 3	4			1	<u>F)</u> 2	<u>/ 06</u> 3	4				
INSTALLATION SCHEDULE.		-				-	=						-						-			
INPUT	17																					
OUTPUT	17																					
OUTPUT	17																					
OUTPUT INSTALLATION SCHEDULE:	17		1	<u>FY</u> 2	<u>07</u> 3	4	-		1	<u>FY</u> 2	<u>′ 08</u> 3	4			1	<u>E</u> 2	<u>Y 09</u> 3	4		TC	. 3	<u>rotal</u>
	17		1			4	-		1			4			11			4		TC 0	. 1	<u>ГОТАL</u> 17
INSTALLATION SCHEDULE:	17		1			4	-		1			4	-		1			4				

### Notes/Comments:

FY02: Shore assets are turnkey installations provided by NUWC, Newport.

PY-FY03: Trident Refit Facilities (TRF) are fully funded NAVSEA activities providing SSBN support. Installations provided by TRF.

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE

NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals-- AN/WSC-6(V)5 Mod Kits - Ship

DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																	
	PY Qty	s	FY 02 Qtv	s	FY 03 Qty	\$	<u>FY 04</u> Qty	\$	FY 05 Qtv	s	FY 0 Qty	<u>16</u> \$	FY 07 Qty	\$	FY 08 Qty	\$	<u>FY (</u> Qty
RDT&E	Qty	Ψ	Qty	·	Qty	Ψ	Qty	Ÿ	Qty	Ψ	Qty	Ψ	Q.I.J	Ψ	αij	Ÿ	Qty
PROCUREMENT:																	
Kit Quantity																	
Installation Kits																	
Installation Kits Nonrecurring																	
Equipment	23	27.4															
Terminal Upgrades					Var.	0.3	Var.	1.4									
Production Support		3.7				0.0		0.1									
Other (DSA)		1.0		0.0		0.0		0.0		0.3		0.2					
Interim Contractor Support																	
Installation of Hardware*	17	9.6	2	1.0	0	0.0	0	0.0	0	0.9	0	0.8	0	0.0	0	0.0	0
PRIOR YR EQUIP	17	9.6	2	1.0													
FY 02 EQUIP																	
FY 03 EQUIP																	
FY 04 EQUIP									Var.	0.9	Var.	8.0					
FY 05 EQUIP																	
FY 06 EQUIP																	
FY 07 EQUIP																	
FY 08 EQUIP FY 09 EQUIP																	
FY TO EQUIP																	
TOTAL INSTALLATION COST		9.6		1.0		0.0		0.0		0.9		0.8		0.0		0.0	
TOTAL INSTALLATION COST  TOTAL PROCUREMENT		41.6		1.0		0.0		1.4		1.2		1.0		0.0		0.0	
METHOD OF IMPLEMENTATION:	<u> </u>		ADMINISTE		LEAD-TIME:		1 Month	1.4		1.2			TION LEAD-		1	2 Months	
WETTOD OF IN ELIMENTATION.			ADMINIOTI	VATIVE	LLAD-TIML.		1 WOTH					NODOC	OTTON ELAD-	TIIVIL.		Z WOTHIS	
CONTRACT DATES:	FY 2003:		NA				FY 2004:		NA				FY 2005:		NA		
CONTINUED BATEO.	2000.		17/1				1 1 2004.		1471				1 1 2000.		*/ `		
DELIVERY DATES:	FY 2003:		NA				FY 2004:		NA				FY 2005:	1	AV		

DELIVERY DATES:	FY 2003:	NA	F)	Y 2004: NA		FY 2005:	NA		FY 2006:	NA
INSTALLATION SCHEDULE:	PY	1	FY 04 2 3 4	1_	FY 05 2 3 4	_	1	<u>FY 06</u> 2 3	4	
INPUT	19									

INSTALLATION SCHEDULE:	<u>FY 07</u> 1 2 3 4	<u>FY 08</u> 1	<u>FY 09</u> 1	TC	TOTAL
INPUT				0	19
OUTPUT				0	19

### Notes/Comments

OUTPUT

PY Procurements- 3 mod kits were procured but not installed. One destroyed on pier, one will remain as an Engineering Model at Contractor Facility, one install canceled per Fleet request, ship will now receive dual channel (V)7 vice aging (V)5. FY02 - 1 FY00 Procurement was installed in FY02 at Shore Training Facility (FTC Norfolk) in FY02

FY03- Terminal Upgrades include NAVSSI interface cards (no installation funds required) and 1 Electromagnetic Interface (EMI) kit to remain at Original Equipment Manufacturer (OEM) for integration testing.

FY04: Terminal Upgrades include NAVSSI interface cards/production backfits and shock and vibration upgrades.

19

February, 2004

Total

27.4 1.7 3.8

12.2

10.6 0.0

0.0 1.7

0.0

0.0 0.0 0.0

12.2

46.6

23

19

19

0

0

0

0.0

0.0

0.0

NA

0.0 0

0.0

0.0

FY 2006:

MODELS OF SYSTEMS AFFECTED:

February, 2004

321500

MODIFICATION TITLE: Satellite Communications Systems COST CODE

NR106

SHF Terminals-- AN/WSC-6(V)5 Mod Kits - Shore

DESCRIPTION/JUSTIFICATION: AN/WSC-6(V)5 terminals provide training and technical support for high data rate SHF satellite communications for inter and intra service message, data, voice and video transmission.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MIL	LESTONES:																				
FINANCIAL PLAN: (\$ in millions)	PY	FY	02	FY 03		FY (	04	FY 05		FY 06	ñ	FY 07		FY 08		FY 09		TC		Т	otal
	PY Qty	\$ C	tv	\$ Qty	\$		<u>5 -                                   </u>	Qty	s		<u> </u>		\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment	1	0.4	9	¥ 3.9	•		•				*		•		•	3.9	·		*	1	0.4
Engineering Change Orders Data Training Equipment	'																				
Production Support Other (DSA) Interim Contractor Support		0.5																	0.0		0.5
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP	1 1	0.8	I	0.5 0	0.0		0.0		0.0		0.0	0	0.0	0	0.0	0	0.0	0	0.0	2 0 0 0 0 0 0 0	1.3 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		8.0		0.5	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.3
TOTAL PROCUREMENT		1.7		0.5	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.2
METHOD OF IMPLEMENTATION:  CONTRACT DATES:	FY 2003:	NA		ADMINIS		FY 2004:		1 Month				PRODUCTI FY 2005:		NA		12 Months		FY 2006:		NA	
DELIVERY DATES:	FY 2003:	NA		FY 04		FY 2004:		NA	FY	05		FY 2005:	I	NA	<u>FY</u> (	06	I	FY 2006:		NA	
INSTALLATION SCHEDULE:	PY		1 2		4	-		1	2	3	4		-	1	2	3	4				
INPUT	2																				
OUTPUT	2			FY 07					FY	08					<u>FY</u> (	09					
INSTALLATION SCHEDULE:			<u> </u>		4	-		1	2	3	4		-	1	2	3	4	-	TC 0		TOTAL 2
OUTPUT																			0		2

Notes/Comments

FY02 Installation from FY00 Ship Procurement (Trainer).

321500

MODIFICATION TITLE: Satellite Communications Systems COST CODE

MODELS OF SYSTEMS AFFECTED: SHF Terminals-- AN/WSC-6 7 Ft Antenna - Ship

DESCRIPTION/JUSTIFICATION: High data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	LLS TOINLS.																					
THANGIAL FLAN. (\$ IIT HIIIIO13)	PY	FY	02		FY 03		FY 04		FY 05		FY (	06	FY 07		FY 08		FY 09		TO		T	otal
	PY Qty	\$ C	Qty	\$	Qty	\$		\$	FY 05 Qty	\$	Qty	\$		\$	FY 08 Qty	\$	FY 09 Qty	\$	Qty	- \$		\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring				•				,				•		•		Ť	2.09	Ť		•		
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	12	3.2	5	0.7	10	2.2	9	2.8											85	21.3	121	30.1
Production Support Other (DSA) Interim Contractor Support		0.7 0.5		0.0 0.2		0.0 0.5		0.0 0.6		0.3										2.6 6.4		3.3 8.5
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP	12 12	4.4	0	0.0	4	1.2	10	4.0	8	5.9 5.9	0	0.0	0	0.0	0	0.0	0	0.0	85	35.6	119 12 4 10 8 0 0 0	51.1 4.4 1.2 4.0 5.9 0.0 0.0 0.0 0.0
FY TC EQUIP																			85	35.6	85	35.6
TOTAL INSTALLATION COST		4.4		0.0		1.2		4.0		5.9		0.0		0.0		0.0		0.0		35.6		51.1
TOTAL PROCUREMENT		8.8		0.9	DIMMOT	3.9		7.4		6.2		0.0		0.0		0.0		0.0		65.8		92.9
METHOD OF IMPLEMENTATION:				А	DMINIST	RATIVE	LEAD-TIME:		1 Month		PRODUCT	IION LEA	AD-TIME:		9 Months							
CONTRACT DATES:	FY 2003:	Ma	y-03				FY 2004:		Feb-04				FY 2005:		NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:	Fel	b-04				FY 2004:		Nov-04				FY 2005:		NA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	<u> </u>	1 :	<u>FY 04</u> 2	<u>4</u> 3	4		. <u>-</u>	1	<u>FY (</u>	<u>05</u> 3	4	_		1	<u>FY</u> 2	<u>06</u> 3	4				
INPUT	16		4	4	6					4	4											
OUTPUT	16				4	6					4	4										
				FY07	7					FY (	08					FY	<u>′09</u>					
INSTALLATION SCHEDULE:			1 :	2	3	4			1	2	3	4	-		1	2	3	4		TC	•	TOTAL
INPUT																				85		119

Notes/Comments

OUTPUT

FY02 - One Unit reassigned to AIRLANT.

FY04 - One Unit to remain at Original Equipment Manufacturer (OEM) for integration testing

FY05 - Install unit cost increase due to platform specific requirements such as single vs dual antenna configuration.

85

119

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR: MODELS OF SYSTEMS AFFECTED: SHI

SHF Terminals--AN/WSC-6(V)7 - Ship

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

, , , , , , , , , , , , , , , , , , , ,	<u>PY</u> Qty	\$I	FY 02 Qty	\$	FY 03 Qty	\$I	FY 04 Qty	<u>!</u> \$	FY 05 Qtv	\$	FY C	<u>)6</u> \$	FY 07 Qty	\$	FY 08 Qty	\$	FY 09 Qty	\$		<u>2</u> \$		Total \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - Single Channel (V)7 NRE Equipment - Dual Channel V(7) Terminal upgrades Production Support Other (DSA) Interim Contractor Support	24	20.9 7.8 1.0	3	4.1 1.0 4.0 1.6	4 2	5.9 2.0 1.1 0.6	12	12.0 2.7 5.5 1.9		0.8		0.5									43 6	42.9 1.0 4.7 5.5 14.8 6.0
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	14 14	22.5 22.5	4 4	6.9 6.9	7 5 2	11.8 7.7 4.0	7 1 6	9.4 1.3 8.1	9	13.6 13.6	6	9.9		0.0					0	0.0	47 23 3 6 15 0 0 0	74.1 37.2 5.4 8.1 23.4 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		22.5 52.3		6.9 17.7		11.8 21.3		9.4 33.0		13.6 14.4		9.9 10.4		0.0		0.0		0.0		0.0		74.1 149.0
METHOD OF IMPLEMENTATION:		•		· ·	ADMINIST	RATIVE I	EAD-TIME:		1 Month		PRODUCT	ION LEA	AD-TIME:		12 Months		•					'
CONTRACT DATES:	FY 2003:		May-03			ı	FY 2004:		Feb-04				FY 2005:		NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		May-04			1	FY 2004:		Feb-05				FY 2005:		NA				FY 2006:		NA	
				FY	′0 <u>4</u>					FY0	<u>5</u>					<u>F</u>	Y 06					
INSTALLATION SCHEDULE:	PY	_	1	2	3	4		-	1	2	3	4			1	2	3	4	-			
INPUT	25				4	3				4	5				4	2						
OUTPUT	25					4			3		4	5				4	2					
INSTALLATION SCHEDULE:		_	1	<u>FY</u> 2	<u>07</u> 3	4		. <u>-</u>	1	<u>FY 0</u> 2	1 <u>8</u> 3	4			1	<u>FY</u> 2	<u>′ 09</u> 3	4	<u> </u>	TC		<u>TOTAL</u>
INPUT																				0		47
OUTPUT																				0		47

#### Notes/Comments

PY - One (1) unit procured with FY99 Shore funds installed FY00 Ship, Two (2) of the FY00 procurements will be installed at shore sites, one (1) in FY01 and one (1) in FY02.

FY04 - One dual channel terminal will remain at the Original Equipment Manufacturer (OEM) for integration testing.

FY04 - FY04 is the last year to procure on this contract, however, there are no install availabilities for the last six ships until FY06.

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR MODELS OF SYSTEMS AFFECTED: SHI

SHF Terminals--AN/WSC-6(V)7 - Ship (Backfits)

DESCRIPTION/JUSTIFICATION: Equipment to modify installed AN/WSC-6 (V) 7 system to meet Radar Cross Section reduction specifications.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ III IIIIIIIOIIS)												
	PY Qty	FY 02 \$ Qty	FY 03 \$ Qtv	\$ Qty	<u>'04</u> <u>FY 05</u> \$ Qty	\$ Qty	<u>'06</u> <u>FY 0</u> \$  Qtv	1 <u>7</u> \$ Qtv	<u>7 08</u> <u>FY</u> \$	09 \$ Qtv	TC \$  Qtv	Total v \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits - RCS Backfit Installation Kits - WGS Backfits Equipment Nonrecurring - RCS Backfit Engineering Change Orders Data	4	0.4 8	0.6 6	0.5 12	1.1	<b>V</b> (3.7)		<b>V</b> 32.3	v say	¥ 55	30	) 2.6
Training Equipment Production Support Other (DSA) Interim Contractor Support Installation of Hardware*		4	0.2	0.1	0.2 0.2 1.3 8	0.2	0.0	0.0 0	0.0 0	0.0 0	0.0 30	0.4 0.4 0 3.5
PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP		4	0.4	0.4 4 6	0.5 0.8 8	0.9 4	0.4				4 8 6 12 0	0.4 1.0 0.8 2 1.3
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP											0 0 0 0 0 0	0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.0	0.4	0.4	1.3	0.9	0.4	0.0	0.0	0.0	0.0	3.5
TOTAL PROCUREMENT		1.3	1.2	1.0	2.8	1.1	0.4	0.0	0.0	0.0	0.0	7.8
METHOD OF IMPLEMENTATION:			ADMINI	STRATIVE LEAD-TIN	ME: 1 Month	PRODUC	CTION LEAD-TIME:	10 Month	s RCS			
CONTRACT DATES:	FY 2003:	May-03		FY 2004:	Feb-04		FY 2005:	NA		FY 2006	S: NA	
DELIVERY DATES:	FY 2003:	May-04		FY 2004:	Dec-04		FY 2005:	NA		FY 2006	S: NA	
INSTALLATION SCHEDULE:	PY	1	<u>FY04</u> 2 3	4	1	<u>FY 05</u> 2 3	4	1	<u>FY06</u> 2 3	4		
INPUT	8	4	3	3		6	2	2	2			
OUTPUT	8	4	3	3		6	2	2	2			
INSTALLATION SCHEDULE:		1	<u>FY 07</u> 2 3	4	1	<u>FY 08</u> 2 3	4	1	<u>FY 09</u> 2 3	4	TC	TOTAL
						<u> </u>			<u>-</u>			<del></del>
INPUT											0	30
OUTPUT											0	30

Notes/Comments

FY04 - FY04 is the last year to procure on this contract, however, there are no install availabilities for the last four ships until FY06.

321500

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals --AN/WSC-6(V)7 - Shore

DESCRIPTION/JUSTIFICATION: AN/WSC-6(V)7 terminals provide training and technical support for high data rate SHF satellite communications for inter and intra service message, data, voice and video transmission.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

THE UNION LET LETUY. (\$ III THIIIIONS)	DV		EV 00		FY 03		FY 0		EV OF		FY 0		EV 07		EV 00		EV 00		TO		Tota	.1
	PY Qty	\$	FY 02 Qty	\$	Qty	\$		<u>\$</u>	FY 05 Qty	s		<u>o</u> sl	FY 07 Qty	\$	FY 08 Qty	\$	FY 09 Qty	\$	TC Qtv	\$	Qty	<u>s</u> l
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment-WGS Backfits Equipment- Dual Channel Backfits Data Training Equipment Production Support	2	1.5	0	0.2	Qty	¥	1	0.1	aty	•	wiy	•	wiy	¥.	uty	•	Gty	Ψ	uty	4	2 0 1	1.7 0.0 0.1 0.0 0.0 1.8
Other (DSA) Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	1 1	0.8	2 2	1.2 1.2	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4 3 0 0 1 0 0 0 0 0	0.0 0.0 2.2 2.0 0.0 0.0 0.2 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.8		1.2		0.0		0.0		0.2		0.0		0.0		0.0		0.0		0.0	0	2.2
TOTAL PROCUREMENT		4.1		1.4		0.0		0.1		0.2		0.0		0.0		0.0		0.0		0.0		5.8
METHOD OF IMPLEMENTATION:				F	ADMINIST	RATIVE	LEAD-TIME	Ξ:	1 Month				PRODUCTI	ON LEAL	J-IIME:		12 Months					
CONTRACT DATES:	FY 2003:	1	NA				FY 2004:		Feb-04				FY 2005:		NA				FY 2006:			
DELIVERY DATES:	FY 2003:	ı	NA				FY 2004:		Feb-05				FY 2005:		NA				FY 2006:			
				FY0	<u>)4</u>					FY	<u>05</u>					FY	06					
INSTALLATION SCHEDULE:	PY	_	1	2	3	4			1	2	3	4		-	1	2	3	4				
INPUT	3									1												
OUTPUT	3									1												
INSTALLATION SCHEDULE:		-	1	<u>FY0</u>	<u>3</u>	4			1	<u>FY</u> (	<u>08</u> 3	4			1	<u>FY</u> 2	<u>09</u> 3	4	_	TC	-	<u>TOTAL</u>
INPUT																				0		4
OUTPUT																				0		4

### Notes/Comments

PY: FY99 Unit installed on Ship, FY01- One (1) install routed from FY00 Ship Procurement .

FY02 - Zero (0) quantity is ancillary baseband equipment

FY02 - One (1) install routed from FY00 Ship Procurement

321500

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR106
MODELS OF SYSTEMS AFFECTED: SHF Te

SHF Terminals--AN/WSC-6(V)9 - Ship

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(¢																							
	PY Qty	\$	FY 02 Qty	\$	FY 03 Qty	s	FY 0 Qty	<u>04</u> \$	FY 05 Qtv	\$	<u>FY</u> Qty	<u>06</u> \$	FY 07	<u>7</u> \$		<u>′08</u> \$		FY 09	s	Qty TC	<u>:</u> \$		otal el
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - C/X Terminal Equipment-C/X/Ka Ready Terminal Terminal Upgrades Data Training Equipment	5 5	6.7	Qiy 5	4.9	3	3.8	20 var	31.3 1.5					Y09 procu					Ship)		Qiy	•	13 20	15.4 31.3 1.5 0.0
Production Support Other (DSA)		5.6 0.6		4.0 0.6		2.2 0.8		2.6 3.3		0.4		0.6	;										14.4 6.3
Interim Contractor Support Installation of Hardware*	1		4	1.7	2		6	9.0	8	12.1	12	17.7		0.0	0	0.0	0		0.0	0	0.0	31	0.0 47.0
PRIOR YR EQUIP	1	1.9 1.9	1 1	1.7	3 1	4.6 1.5				12.1	12	17.7	U	0.0	U	0.0	U		0.0	U	0.0	3	5.1
FY 02 EQUIP FY 03 EQUIP					2	3.1	3 3	4.5 4.5														5 3	7.6 4.5
FY 04 EQUIP FY 05 EQUIP									8	12.1	12	17.7										20 0	29.8 0.0
FY 06 EQUIP																						0	0.0
FY 07 EQUIP FY 08 EQUIP																						0	0.0 0.0
FY 09 EQUIP FY TC EQUIP																						0	0.0 0.0
TOTAL INSTALLATION COST		1.9		1.7		4.6		9.0		12.1		17.7		0.0		0.0			0.0		0.0		47.0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		14.8		11.2	ADMINIST	11.5	LEAD-TIME	47.6	1 Month	12.5	PRODUC	18.3	AD-TIME:	0.0	10 Months	0.0 16 month			0.0		0.0		115.9
				•												<i>x</i> 10 11101101	•						
CONTRACT DATES:	FY 2003:		Jun-03				FY 2004:		Feb-04				FY 2005:		NA			FY 200	06: N	A			
DELIVERY DATES:	FY 2003:		Apr-04				FY 2004:		Jun-05				FY 2005:		NA			FY 200	06: N	A			
				FY						FY							Y 06						
INSTALLATION SCHEDULE:	PY	-	1	2	3	4			1	2	3	4	=		1	2	3	4					
INPUT	5			3	3						3	5			7	5							
OUTPUT	5				3	3						3			5	7	5						
				FY	07					FY	<u>80</u>					<u> </u>	Y 09						
INSTALLATION SCHEDULE:		-	1	2	3	4			1	2	3	4	_		1	2	3	4		-	TC	-	<u>TOTAL</u>
INPUT																					0		31
OUTPUT																					0		31

# Notes/Comments

Two (2) FY00 C/X terminal procurements will be installed at shore sites, one (1) in FY01 and one (1) in FY02.

(V)9 C/X/Ka Ready Terminal is equal to (V)10 terminal without Ka-specific hardware and software components. With addition of (V)10 upgrade, C/X/Ka Ready (V)9 will be converted to (V)10 terminal.

FY04 - Terminal upgrades are various procurements of C-Band EMI mitigation kits.

MODIFICATION TITLE: 321500 Satellite Communications Systems

COST CODE

MODELS OF SYSTEMS AFFECTED: SHF Terminals--AN/WSC-6(V)9 - Shore

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)																			
	PY Qty	FY 02 \$ Qtv	\$ Qt	<u>)3</u> , \$	FY 04 Qty	<u>l</u> sl	<u>-Y 05</u>	\$	FY 06 Otv \$	FY 07	s.l	FY 08		FY 09		TC Qty	\$	Tot	<u>:al</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment-WGS Backfit Engineering Change Orders Data Training Equipment Production Support Other (DSA)	Qty	\$ Qiy	S Qty	, 3	S City	\$	Qty	\$	Qty \$	Qty	\$					Qty	\$	Qty 0	0.0
Interim Contractor Support Installation of Hardware* Installation of Modems PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP	1 1	0.4 1 0.4 1	0.5 0			0.0			0 0.0		0.0	0	0.0	0	0.0	0	0.0	2 0 0 0 0 0 0 0	0.8 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.4	0.5	0.0		0.0		0.0	0.0		0.0		0.0		0.0		0.0		0.8
METHOD OF IMPLEMENTATION:  CONTRACT DATES:	FY 2003:	NA			ELEAD-TIME:		Month		ODUCTION LEA			2 Months	0.0			FY 2006:	0.0	NA	0.0
DELIVERY DATES:	FY 2003:	NA			FY 2004:	NA				FY 2005:		NA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	1	<u>FY04</u> 2 3	4	_		1 2	FY05	3 4	_	_	1	<u>FY(</u>		4				
INPUT	2																		
OUTPUT	2																		
INSTALLATION SCHEDULE:		1	<u>FY07</u> 2 3	4	_	_	1 2	<u>FY08</u>	3 4	_	_	1	<u>FY</u> 2	<u>/ 09</u> 3	4	. <u>-</u>	TC		<u>TOTAL</u>
INPUT																	0		2
OUTPUT																	0		2

PY install is from FY00 Ship Procurement. FY02 Installation from FY00 Ship procurement (trainer).

321500

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR1
MODELS OF SYSTEMS AFFECTED: SHF

SHF Terminals -- SUBHDR SHF Mod Kit

DESCRIPTION/JUSTIFICATION: Provides high data rate SHF satellite communications for intra and inter service message, data, voice and video transmission and reception for submarines.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

(4	PY Qty	sl	FY 02 Qty	sl	FY 03 Qty	\$	<u>FY</u> Qty	<u>04</u> \$	FY 05 Qty	s	<u>FY</u> Qty	<u>06</u> \$	<u>FY 07</u> Qty	sl	FY 08 Qty	\$	FY 0	<u>)9</u> \$	TC Qty	\$	<u>Tota</u> Qty	al sl
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	7	0.6	aty	<b>y</b>	aty	*	Gty	Ţ.	Gty	•	12	4.2	saty	v	wy	¥	aty	ų.	48	16.8	67	21.6
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 10 EQUIP FY 10 EQUIP TOTAL INSTALLATION COST	7 7	0.2	0	0.0	0	0.0	0	0.0		0.0	0	0.0	12	0.4	0	0.0	0	0.0	48	1.4	67 7 0 0 0 0 12 0 0 0 48	2.0 0.2 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 1.4 2.0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		0.8		0.0	ADMINIST	0.0	LEAD-TIM	0.0		0.0	PRODUC	4.2		0.4	15 Months	0.0		0.0		18.2		23.6
CONTRACT DATES:	FY 2003:		NA	•			FY 2004:		NA				FY 2005:		NA				FY 2006:		Nov-05	
DELIVERY DATES:	FY 2003:		NA				FY 2004:		NA				FY 2005:		NA				FY 2006:		Feb-07	
INSTALLATION SCHEDULE:	<u>PY</u> 7	-	1	2 2	0 <u>4</u> 3	4			1	2 <u>FY</u>	0 <u>5</u> 3	4		-	1	2 <u>FY</u>	0 <u>6</u> 3	4				
OUTPUT	7																					
INSTALLATION SCHEDULE:		-	1	<u>FY</u> 2	<u>07</u> 3	4			1	<u>FY</u> 2	<u>08</u> 3	4		-	1	<u>FY</u> 2	<u>09</u> 3	4	. <u>-</u>	TC		<u>TOTAL</u>
INPUT				8	4															48		67
OUTPUT				8	4															48		67

Notes/Comments

FY 05

Qty

FY 04

321500

0.0 0

0.0

FY05

FY 06

FY 07

FY 08

FY 09

MODIFICATION TITLE: Satellite Communications Systems COST CODE

NR106

SHF Terminals -- AN/WSC-6(V)7 Modems

<u>PY</u> Qty

68

62

62

DESCRIPTION/JUSTIFICATION: Shore side modems for compatibility with the AN/WSC-6(V)7 terminals to support increased SHF capacity.

2.2

3.1

3.8

3.8

3.8

9.2

6

FY 02 Qty

FY 03 Qty

36

0.0

0.4

0.4

0.5

0.0

0.0 36

0.6

ADMINISTRATIVE LEAD-TIME:

36

FY 2004:

FY 2004:

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES FINANCIAL PLAN: (\$ in millions)

RDT&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecurring
Equipment
Equipment Nonrecurring
Engineering Change Orders
Data
Training Equipment
Production Support
Other (DSA)
Interim Contractor Support

MODELS OF SYSTEMS AFFECTED:

FY 09 EQUIP	
FY TC EQUIP	
TOTAL INSTALLATION COST	
TOTAL PROCUREMENT	

CONTRACT DATES:

DELIVERY DATES:

TOTAL INSTALLATION COST
TOTAL PROCUREMENT
METHOD OF IMPLEMENTATION

FY 2003:	May-03
FY 2003:	May-04

May-04

FY04

FY 07

0.4

1.0

1.0

1.0

NA NA

1 Month

FY 2005: FY 2005:

0.0

PRODUCTION LEAD-TIME:

0.0

N/A N/A

12 Months

0.0

0

0.0

0.0

FY06

FY 2006: FY 2006:

0.0

0.0

N/A

TC

Total

2.8

3.2

5.2

4.2

0.0

1.0

0.0 0.0

0.0

0.0

0.0

0.0 0.0

5.2

11.2

104

104

104

68

0

36

0

0

0

0

0

0.0

0.0

N/A

INSTALLATION SCHEDULE: INPUT

OUTPUT

INPUT

OUTPUT

68 68

PY

18 18

18

18

FY 09

TC TOTAL 0 104

Notes/Comments

INSTALLATION SCHEDULE:

Exhibit P-3a, Individual Modification Justification Unclassified Classification

0

Notes/Comments

MODIFICATION TITLE: Satellite Communications Systems

ommunications Systems 321500

COST CODE
MODELS OF SYSTEMS AFFECTED:

NR106

SHF Terminals -- AN/WSC-6(V)9 Modems - Shore

DESCRIPTION/JUSTIFICATION: Shore side modems for compatibility with the AN/WSC-6(V)9 terminals to support increased SHF capacity.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	PY Qty	s	<u>Y 02</u> Qty	FY 03 \$ Qty	\$	FY 04 Qty	FY 05 \$ Qt	, sl	FY 0	<u>)6</u> \$	<u>FY 07</u> Qty	اء	<u>FY 08</u> Qty	\$	FY 0 Qty	<u>9</u> \$	TC Qty	\$	Tot Qtv	tal 👊
RDT&E PROCUREMENT: Kit Quantity	Qty	\$	Qty	\$ Qty	\$	Qty	\$ Qt	<b>у</b> \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Installation Kits Nonrecurring Equipment Advanced MODEM NRE Data	12	0.2		20	0.4														32	0.6
Training Equipment Production Support Other (DSA) Interim Contractor Support		1.3		0.0	0.0															1.4 0.0
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 07 EQUIP FY 09 EQUIP	8 8	0.2	4 4	0.2 0	0.0	20	0.6 0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	32 12 0 20 0 0 0 0 0	1.0 0.4 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.2 1.7		0.2	0.0 0.4		0.6	0.0		0.0		0.0		0.0		0.0		0.0		1.0 3.0
METHOD OF IMPLEMENTATION:		1.7				LEAD-TIME:			PRODUCT		AD-TIME:		2 Months	0.0		0.0		0.0		3.0
CONTRACT DATES:	FY 2003:	A	ug-03			FY 2004:	NA			F	FY 2005:		NA		F	FY 2006:		NA		
DELIVERY DATES:	FY 2003:	A	ug-04			FY 2004:	NA			F	FY 2005:		NA		F	FY 2006:		NA		
INSTALLATION SCHEDULE:	PY	_	1 2	<u>FY04</u> 2 3	4		1	2 <u>FY</u>	<u>05</u> 3	4		_	1	<u>FY0</u>	9 <u>6</u> 3	4				
INSTALLATION SCHEDULE: INPUT	PY 12	_	1 2		4 20		1			4		_	1			4				
		_	1 2				1			4		_	1			4				
INPUT	12	_	1 2	2 3 FY 07	20		1		3	44		_			3	44	-	TC_		TOTAL
INPUT	12	_		2 3 FY 07	20 20		1	2 <u>FY</u>	3 08			_		<u>FY (</u>	3	<u> </u>	-	<u>TC</u>		<u>TOTAL</u> 32

MODIFICATION TITLE: Satellite Communications Systems 321500 NR106

COST CODE MODELS OF SYSTEMS AFFECTED: SHF Terminals -- EBEM Modems - Ship

DESCRIPTION/JUSTIFICATION: Shore side modems for compatibility with the AN/WSC-6(V)9 terminals to support increased SHF capacity.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

	PY Qty	s l	FY 02 Qty	sI	FY 03 Qty	\$	FY 0 Qty	<u>4</u> \$l	FY 05 Qtv	\$	FY (	<u>)6</u> \$	FY 07 Qty	sl	FY 08 Qtv	<u>s</u>	FY 0 Qty	<u>)9</u> \$	TC Qty	\$		<u>otal</u> \$ <b>I</b>
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Advanced MODEM NRE	aly	•	10	0.4 1.0	Qty	V	119	1.2	1	0.0	57	0.6	acy .	Ų.	10	0.1	wy	Ψ	16	0.2	213	2.4
Data Training Equipment Production Support Other (DSA) Interim Contractor Support								0.3 1.4		0.6		0.8		0.0		0.1		0.0		0.2		0.3 3.2
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	0	0.0	0	0.0	0	0.0	0	0.0	118	2.5	46	0.9	12	0.2	0	0.0	10	0.2	16	0.3	202 0 0 0	4.1 0.0 0.0 0.0
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP									118	2.5	1 45	0.0 0.9	12	0.2							118 1 57 0	2.5 0.0 1.1 0.0
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP																	10	0.2	16	0.3	10 0 16	0.2 0.0 0.3
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		2.5		0.9		0.2		0.0		0.2		0.3		4.1
TOTAL PROCUREMENT		0.0		1.4		0.0		2.9		3.1		2.3		0.3		0.2		0.2		0.7		11.1
METHOD OF IMPLEMENTATION:																						
				,	ADMINIST	RATIVE	LEAD-TIME	:	1 MONTH		PRODUC <sup>*</sup>	IION LEA	D-TIIVIL.	ь	MONTHS							
CONTRACT DATES:	FY 2003:		NA	,	ADMINIST		FY 2004:	:	1 MONTH Apr-04	1	PRODUC		Y 2005:	ь	Dec-04				FY 2006:		Nov-05	
	FY 2003: FY 2003:		NA NA	,	ADMINIST			<b>:</b> :			PRODUC <sup>*</sup>	F		6					FY 2006: FY 2006:		Nov-05 May-06	
CONTRACT DATES:		_		<u>FY0</u> 2			FY 2004:	:: -	Apr-04	<u>FY0</u> 2		F	Y 2005:	• -	Dec-04	<u>FY0</u> 2	<u>6</u> 3					
CONTRACT DATES: DELIVERY DATES:	FY 2003:	_		FYO	<u>)4</u>		FY 2004:	:: -	Apr-04	FYO	<u>05</u>	F	Y 2005:	-	Dec-04							
CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE:	FY 2003:	-		FYO	<u>)4</u>		FY 2004:	:: -	Apr-04 Oct-04	<u>FY0</u> 2	<u>05</u> 3	F	Y 2005:	-	Dec-04	2	3	4				
CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	FY 2003:  PY 0	- -		FYO	<u>3</u>		FY 2004:	- -	Apr-04 Oct-04  1 48	<u>FY0</u> 2	3 22 22	F	Y 2005:	- -	Dec-04	1	22	23		TC		TOTAL
CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT	FY 2003:  PY 0	-		<u>FY(</u> 2	<u>04</u> 3	4	FY 2004:	-	Apr-04 Oct-04  1 48	FYC 2 48 48 FYC 5	22 22 22	F F	Y 2005:	-	Dec-04	2 1 1 <u>FY 09</u>	22 22	23 23				<u>TOTAL</u> 202

### Notes/Comments

FY02: Ten (10) MODEMs required for production acceptance testing, no installation required.

FY04 - One (1) EBEM (Enhanced Bandwidth Efficient Modem) will remain at Original Equipment Manufacturer (OEM) for integration testing.

321500

MODIFICATION TITLE: Satellite Communications Systems

NR106

COST CODE MODELS OF SYSTEMS AFFECTED:

SHF Terminals -- EBEM Modems - Shore

DESCRIPTION/JUSTIFICATION: Provides High Data Rate SHF Satellite Comunications for the Intra and Inter service message, data, voice and video Transmission and reception.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions) FY 02 FY 03 FY 04 FY 05 FY 08 FY 09 FY 06 FY 07 TC Total Qty Qty Qty Qty Qty \$ Qtv Qtv Qty Qtv RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment 106 1.5 60 0.7 166 0 0.0 Equipment **Engineering Change Orders** Data Training Equipment Production Support Other (DSA) Interim Contractor Support Installation of Hardware\* 0 0 0.0 0 0.0 0 0.0 166 2.6 0 0.0 0 0.0 0 0.0 0.0 0 0.0 166 2.6 Installation of Modems 0 0.0 PRIOR YR EQUIP 0.0 0 FY 02 EQUIP 0 0.0 0.0 FY 03 EQUIP 0 FY 04 EQUIP 106 1.7 106 FY 05 EQUIP 60 60 0.9 0.9 FY 06 EQUIP 0 0.0 FY 07 EQUIP 0 0.0 FY 08 EQUIP 0 0.0 FY 09 EQUIP 0.0 0 FY TC EQUIP 0 0.0 TOTAL INSTALLATION COST 0.0 0.0 0.0 0.0 2.6 0.0 0.0 0.0 0.0 TOTAL PROCUREMENT 0.0 0.0 0.0 1.5 3.3 0.0 0.0 0.0 0.0 0.0 4.8 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEAD-TIME: PRODUCTION LEAD-TIME: 1 Month 6 Months CONTRACT DATES: FY 2003: NA FY 2004: FY 2005: FY 2006: Apr-04 Nov-04 NA **DELIVERY DATES:** FY 2003: NA FY 2004: Oct-04 FY 2005: May-05 FY 2006: NA FY04 FY05 FY06 INSTALLATION SCHEDULE: PY 53 INPUT 0 53 30 30 OUTPUT 0 53 53 30 30 FY07 FY08 FY 09 INSTALLATION SCHEDULE: TC **TOTAL** 

INPUT

OUTPUT

Notes/Comments

0

0

2.2

1.7

2.6

166

166

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR106
MODELS OF SYSTEMS AFFECTED: SHF Tel

SHF Terminals--AN/WSC-6(V)10 Ship

DESCRIPTION/JUSTIFICATION: Provides High Data Rate SHF Satellite Comunications for the Intra and Inter service message, data, voice and video Transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY Qty	\$	FY 02 Qty	s	FY 03 Qty	\$	FY 04 Qty	<u>4</u> \$	FY 05 Qty	sl	FY 06 Qty	<u>6</u> ≴I	FY 07 Qty	<u>7</u> \$	FY 08 Qtv	<u>\$</u>	FY Qty		Qty	<u>rc</u>	\$ Qtv	Total \$1
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Data Training Equipment Production Support Other (DSA) Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	0	0.0	O O	0.0	0	0.0	4	9.7 2.6 0.4 0.0	1 3	2.4 2.2 0.4 1.5 4.5	12 1	21.4 3.5 1.4 1.6	12	1.5 0.5 17.7	10 0	19.4 2.9 1.2 0.0	10	1.3 0.4 14.3	16	29 2 2 23	1 43 6 4	82.2 0.0 0.0 16.6 6.6 1.5 62.0 0.0 0.0
FY 04 EQUIP FY 05 EQUIP									3	4.5	1	1.6									3	4.5 1.6
FY 06 EQUIP											'	1.0	12	17.7							12	17.7
FY 07 EQUIP FY 08 EQUIP																	10	14.	7		0 10	0.0 14.7
FY 09 EQUIP FY TC EQUIP																			16	23.	0 5 16	0.0 23.5
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		4.5		1.6		17.7		0.0		14.		23.	5	62.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.0		0.0	ADMINIST	0.0	LEAD TIME	12.7	1 Manth	11.0	DODUCTI	28.0	D TIME:	19.6	EV04: 40 Ma	23.5		14.7 16.4		23. 57.	5	
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		0.0		0.0	ADMINIST	0.0 RATIVE	LEAD-TIME	12.7	1 Month	11.0	PRODUCTI	28.0	D-TIME:	19.6	FY04: 16 Mo FY05 and ou	23.5 nths	iths		1		5 7	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT	FY 2003:	0.0		0.0	ADMINIST	0.0 RATIVE	LEAD-TIME FY 2004:	12.7	Month Feb-04	11.0	PRODUCTI	28.0 ON LEA	D-TIME: FY 2005:	19.6		23.5 nths	nths				5	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:	FY 2003: FY 2003:	0.0		0.0	ADMINIST	0.0 RATIVE		12.7		11.0	PRODUCTI	28.0 ON LEAI		19.6	FY05 and ou	23.5 nths	nths		1		5 7	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	FY 2003:	0.0	NA	0.0	<u>04</u>	0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F FY0:	<u>5</u>	28.0 ON LEAI	FY 2005:	19.6	FY05 and ou Dec-04	23.5 nths t: 12 Mor	<u>06</u>		FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE:	FY 2003:	0.0	NA	0.0		0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F	<u>5</u> 3	28.0 ON LEAI F	FY 2005:	19.6	FY05 and ou Dec-04	23.5 nths t: 12 Mor			FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	PY 0	0.0	NA	0.0	<u>04</u>	0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F FY0:	<u>5</u>	28.0 ON LEAI F F 4	FY 2005:	19.6	FY05 and ou Dec-04 Dec-05	23.5 nths t: 12 Mor	<u>06</u> 3		FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE:	FY 2003:	0.0	NA	0.0	<u>04</u>	0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F FY0:	<u>5</u> 3	28.0 ON LEAI F	FY 2005:	19.6	FY05 and ou Dec-04	23.5 nths t: 12 Mor	<u>06</u>		FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	PY 0	0.0	NA	0.0 FY 2	<u>04</u> 3	0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F EY09	<u>5</u> 3 2	28.0 ON LEAI F F 4	FY 2005:	19.6	FY05 and ou Dec-04 Dec-05	23.5 nths t: 12 Mor <u>FY(</u> 2	0 <u>6</u> 3		FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT	PY 0	0.0	NA	0.0	<u>04</u> 3	0.0 RATIVE	FY 2004:	12.7	Feb-04	11.0 F FY0:	<u>5</u> 3 2	28.0 ON LEAI F F 4	FY 2005:	19.6	FY05 and ou Dec-04 Dec-05	23.5 nths t: 12 Mor <u>FY(</u> 2	<u>06</u> 3		FY 2006:		Dec-(	62.0 168.8
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION SCHEDULE: INPUT OUTPUT	PY 0	0.0	NA	0.0 EY 2	04 3	0.0 TRATIVE	FY 2004:	12.7	Feb-04	11.0 F	<u>5</u> 3 2	28.0 ON LEAI F F 4 1	FY 2005:	19.6	FY05 and ou Dec-04 Dec-05	23.5 nths t: 12 Mor	0 <u>6</u> 3 1	16.4	FY 2006:	57.	Dec-(	62.0 168.8

### Notes/Comments

FY04 - One (V)10 terminal will remain at the Original Equipment Manufacturer (OEM) for integration testing.

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals--AN/WSC-6(V)10 - Ship Upgrades

DESCRIPTION/JUSTIFICATION: Equipment to convert installed AN/WSC-6 (V)9 system to (V)10 system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	PY Qty	\$	FY 02 Qty	sl	FY 03 Qty	s l	FY 04 Qtv	<u>.</u> \$	FY 05 Qty	sl	FY 0	<u>)6</u> \$	<u>FY 07</u> Qty	sl	FY 08 Qty	<u>s</u>		<u>Y 09</u> \$	Qty	TC \$	<u>Tot</u> Qty	<u>al</u> sl
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - Upgrade the (V)9 C/X to (V)10 Equipment - Upgrade (V)9 C/X/Ka Ready to (V)10 Data Training Equipment Production Support Other (DSA)	us.y	•	u.,		us.y	v	1	2.3	2	4.7 1.3 0.2	5 12	9.2 3.6 1.0 0.5	1 8	2.7 2.6 1.5 0.1	3	5.8 2.9 0.1	<u></u>	0.0	<u>,</u>	•	12 20	6.2 7.4 1.0
Interim Confractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	14 2 12	3.9 3.0 0.9	13 5 8	7.4 0.6	1	0.4	3	1.2	0	0.0	32 0 0 1 2 17 9 3 0	13.9 0.0 0.0 0.0 0.4 3.0 8.3 1.0 1.2 0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.4		3.9		8.0		0.4		1.2		0.0		13.9
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION		0.0		0.0	ADMINIST	0.0 RATIVE	LEAD-TIME:	3.1	1 Month	6.6	PRODUCT	18.2 TON LEAD	D-TIME:		16/12 Month Ka Ready 6			1.2		0.0		53.2
CONTRACT DATES:	FY 2003:		NA				FY 2004:		Feb-04			F	Y 2005:		Dec-04			FY 2006:		Dec-05		
DELIVERY DATES:	FY 2003:		NA				FY 2004:		Jun-05			F	Y 2005:		Dec-05			FY 2006:		Dec-06		
INSTALLATION SCHEDULE:	PY	-	1	2 <u>FY</u>	<u>04</u> 3	4			1	<u>FY0</u> 2	) <u>5</u> 3	4		_	1	2 <u>FY</u>	<u>06</u> 3	4				
INPUT																2	4	8				
	0										1					_	7	U				
OUTPUT	0										1	1				2	6	8				
OUTPUT INSTALLATION SCHEDULE:		-	1	<u>FY</u> 2	<u>07</u> 3	4			5	<u>FY 0</u>	·	1 8		_	9		-			TC		<u>TOTAL</u>
		-	1			4 4			5		0 <u>8</u>	8		_	9	<u>FY</u>	6 <u>′ 09</u>	8				<u>TOTAL</u> 32

# Notes/Comments

AN/WSC-6(V)10 Ship Upgrades were formerly identified as AN/WSC-6(V)9 Ship (Backfits)

(V)9 C/X/Ka Ready Terminal is equal to (V)10 terminal without Ka-specific hardware and software components. With addition of (V)10 upgrade, C/X/Ka Ready (V)9 will be converted to (V)10 terminal. FY04/05/06 - Upgrades to the (V)9 C/X terminals have higher unit cost due to initial 5 ship units are produced as complete terminals to begin the backfit process and the remaining units are solely backfits

MODIFICATION TITLE:

Satellite Communications Systems

321500

COST CODE

NR106

MODELS OF SYSTEMS AFFECTED: SHF Terminals--AN/WSC-6(V)10 Shore

DESCRIPTION/JUSTIFICATION: Provides High Data Rate SHF Satellite Comunications for the Intra and Inter service message, data, voice and video Transmission and reception.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																			
	PY Qty		<u>′ 02</u> Qty	FY 03 \$ Qtv	\$	FY 04 Qtv			<u>F`</u> 3 Qtv	<u>Y 06</u> \$	FY 07 Qty	\$ Qty	<u>Y 08</u> \$		<u>′ 09</u>	Qty	<u>C</u> \$	<u>Tota</u> Qty	<u>al</u> sl
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment - (V)10 Upgrade to the (V)9 C/X Data Training Equipment Production Support Other (DSA)	Qiy	3	aty	φ Qty	φ	Qty	•	<u>uiy</u>	1	1.8	шy	\$ Qty	φ	άly	Š	diy	ą.	1	1.8 0.0 0.0 0.0 0.0
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP	0		0	0.0 0	0.0		0.0 0			0.0	1	0.3 0	0.0	0	0.0		0.0	0 0 0 0 0 1 0 0 0	0.0 0.3 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.0		0.0	0.0		0.0	0.0		0.0 1.8		0.3	0.0		0.0		0.0		0.3 2.1
METHOD OF IMPLEMENTATION:		0.0				LEAD-TIME				TION LEAD	)-TIME:	12 Mon			0.0	)	0.0		2.1
CONTRACT DATES:	FY 2003:	NA				FY 2004:	NA				Y 2005:	NA				FY 2006:		Dec-05	
DELIVERY DATES:	FY 2003:	NA				FY 2004:	NA			F	Y 2005:	NA				FY 2006:		Dec-06	
INSTALLATION SCHEDULE:	PY		1	FY 04 2 3	4	<del>-</del>	1	<u>E</u> 2	<u>Y05</u> 3	4		1	<u>F)</u> 2	<u>′06</u> 3	4	_			
INPUT	0																		
OUTPUT	0																		
INSTALLATION SCHEDULE:			1	<u>FY 07</u> 2 3	4	_	1	<u>F</u> `2	<u>/ 08</u> 3	4		1	<u>F</u>	<u>Y 09</u> 3	4	_	TC		<u>TOTAL</u>
INSTALLATION SCHEDULE:					4		1		<u>/ 08</u> 3	4		1		<u>Y 09</u> 3	4		тс	. :	TOTAL 1

Notes/Comments

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR10

MODELS OF SYSTEMS AFFECTED: EHF Terminals--AN/USC-38(V) FOT - Ship

DESCRIPTION/JUSTIFICATION: Provides jam resistant, low probability of intercept satellite communications and Full Milstar LDR Operational Capabilities (FMLOC) for shore stations, submarines and surface ships in an electromagnetic threat.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY Qty	\$	FY 02 Qty	\$	FY 03 Qty	\$	<u>FY</u> Qty	<u>04</u> \$	FY 05 Qty	\$		<u>Y 06</u> \$		<u>′ 07</u> \$	FY (	<u>80</u>		<u>'09</u> \$	TC Qtv	\$	<u>To</u> Qty	tal el
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	253	444.4	22	22.6	11	14.2	39	29.3	Var.	1.9		1.4		0.0	,	0.0		0.0	11	16.6	336	530.5
Production Support Other (DSA)		9.4 2.4		4.4 1.3		1.9 2.9		2.4 1.6		3.9 1.0		1.2 0.3								1.1 1.1		24.3 10.6
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP	203 203	224.0 224.0	22 22	18.8 18.8		19.0 19.0	5 22	18.7 3.3 14.7	15	10.8	11	8.8	0	0.0	0	0.0	0	0.0	11	9.0	314 254 22	309.1 265.1 14.7
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY TO EQUIP							1	0.6	10 5	7.2 3.6	11	8.8							11	9.0	11 16 0 0 0 0 0	7.9 12.4 0.0 0.0 0.0 0.0 0.0 9.0
TOTAL INSTALLATION COST		224.0		18.8		19.0		18.7		10.8		8.8		0.0		0.0		0.0		9.0		309.1
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		680.1		47.2		38.0 RATIVE LE		52.0	1 Month	17.7		11.7 CTION LEAD		0.0	18 Months	0.0	1	0.0		27.6		874.4
CONTRACT DATES:	FY 2003:		Dec-02				FY 2004:		Mar-04				FY 2005:		NA				FY 2006:	1	NA	
DELIVERY DATES:	FY 2003:		Jun-04				FY 2004:		Sep-05				FY 2005:		NA				FY 2006:	1	AV	
INSTALLATION SCHEDULE:	PY		1	<u>FY(</u>	<u>04</u> 3	4			1	<u>FY05</u>	<u>5</u> 3	4	-		1	2 <u>FY</u>	<u>06</u> 3	4	-			
INPUT	249		5	10	10	3			5	4	0	6			5	3	3	0				
ОИТРИТ	245		4	5	10	10			3	5	4	0			6	5	3	3				
INSTALLATION SCHEDULE:			1	<u>F\</u> 2	<u>/ 07</u> 3	4			1	<u>FY</u> 2	<u>08</u> 3	4	_		1	<u>FY</u> 2	<u>09</u> 3	4	. <u> </u>	TC		<u>TOTAL</u>
INPUT																				11		314
OUTPUT																				11		314

#### Notes/Comments

Unit cost varies based on ship/sub configuration of procurement.

Production Support is required for AN-USC 38V terminal ongoing deliveries for production monitoring, acceptance testing and initial system familiarization.

PY Delta between procured and installed is due to: One (1) Production Representative Model (FY98) will be used as a Test Asset, the addition of two (2) ship configured terminals procured with FY00 shore funds.

FY04 is 18 SSBN/GN terminals for Submarine Warfare Division (N77). No SPAWAR installation funds required. Five (5) submarine Test and Training Equipment do not require installation.

FY05/FY06 quantity of "Var." reflects procurement of ancillary equipment.

321500

MODIFICATION TITLE: Satellite Communications Systems COST CODE

NR107

MODELS OF SYSTEMS AFFECTED: EHF Terminals --AN/USC-38(V) FOT - Shore

DESCRIPTION/JUSTIFICATION: Provides jam resistant, low probability of intercept satellite communications and Full Milstar LDR Operational Capabilities (FMLOC) for shore stations, submarines and surface ships in an electromagnetic threat.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY Qty	<u> </u>	Y 02		FY 03		FY (		FY 05		FY 0		FY 07		FY 08		FY	09	TC			otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	56	97.1	1	1.9	Var.	8.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	11.0	64	110.7
Training Equipment Other - Equipment not requiring installation Production Support Other (DSA) Interim Contractor Support	13	6.3 4.4		0.5		0.4		0.4												0.7	13	6.3 6.3
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 109 EQUIP FY 109 EQUIP	39 39		0 0	0.0 0.0	1 1	1.7 1.7		5.6 5.6		3.8 3.8	5 4 1	4.9 3.9 1.0	0	0.0	0	0.0	0	0.0	7	7.4	62 54 1 0 0 0 0 0 0	68.3 59.9 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 7.4
TOTAL INSTALLATION COST		45.0		0.0		1.7	1	5.6		3.8		4.9		0.0		0.0		0.0		7.4	-	68.3
TOTAL PROCUREMENT		152.8		2.3		2.9		6.0		3.8		4.9		0.0		0.0		0.0		19.0		191.6
		132.0						0.0								0.0		0.0		19.0		191.0
METHOD OF IMPLEMENTATION:					ADMINIS I	RATIVE LI	EAD-TIME:		1 Month	l	PRODUCT	ION LEA	AD-TIME:	1	8 Months							
CONTRACT DATES:	FY 2003:	NA					FY 2004:		NA				FY 2005:	N	IA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:	NA					FY 2004:		NA				FY 2005:	N	IA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY		1	FY04 2	3	4	-		1	<u>FY05</u> 2	3	4	-	_	1	<u>FY0</u> 2	<u>6</u> 3	4	<u>.</u>			
INPUT	40		2	2	1	1			2	1	1				2	1	2					
OUTPUT	39		1	2	2	1			1	2	1	1				2	1	2				
INSTALLATION SCHEDULE:			1	<u>FY (</u>	<u>07</u> 3	4	_		1	<u>FY 0</u> 2	1 <u>8</u> 3	4	_		1	<u>FY 0</u>	<u>19</u> 3	4		TC		TOTAL
INPUT														_					_	7		62
3.																				•		0 <u>2</u>
OUTPUT																				7		62

### Notes/Comments

PY delta between procurement and installation reflects 2 Ship configured FOTs originally procured for training sites, transferred to Ship installations.

PY cost reflect procurement of 13 Single Channel Anti-Jam Man Portables (SCAMPS). Units do not require installation.

FY04: Production Support is required for AN-USC 38V terminal ongoing deliveries and installations for production monitoring, acceptance testing and initial system familiarization.

FY 04

MODIFICATION TITLE: Satellite Communications Systems COST CODE

NR107 MODELS OF SYSTEMS AFFECTED:

EHF Terminals--NECC - Ship

PY

FY 02

FY 03

DESCRIPTION/JUSTIFICATION:

Provides for satellite communications connectivity between shore stations, submarines, and surface ships. Includes network management; multiplexing and channel sharing; resource management; communications management/planning; network control/monitoring; circuit switching and packet switching.

FY 05

321500

FY 06

FY 07

FY 08

FY 09

TC

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	I Qty	\$ Qty	s	Qty	\$	Qtv	\$ Qty	\$	Qty	<u>1 00</u> \$	Qty		Qty	sl.	Qty	<u>55</u> \$	Qty	\$	Qty	<u>s</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring	182 23.		4.5	12	2.8	,	3.8 10	5.4		1.6	0	0.0	0	0.0	0	0.0	11	1.9	283	43.6
Engineering Change Orders Data Other (Test Units) Training Equipment Production Support Other (DSA)	4 0.0 2.0 0.1	4	0.7 0.2		0.2 1.2		0.5 2.2	0.4 1.4		0.3 0.3								0.1 0.5	4	0.6 4.6 5.9
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 06 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP	172 12.i 172 12.i	B 10 24	4.0 1.2 2.9	27 15 12	3.9 2.2 1.8	17	7.7 13 7.7 4 9	8.8 2.7 6.1	9 1 8	3.5 0.4 3.2	0	0.0	0	0.0	0	0.0	11	2.9	283 182 39 12 21 10 8 0 0	43.7 14.0 5.1 1.8 10.4 6.4 3.2 0.0 0.0 0.0 2.9
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:	12.i		4.0 9.4	ADMINIST	3.9 8.2 RATIVE LEAI	1	7.7 4.1 1 Month	8.8 16.0	PRODUC	3.5 5.7 TION LEAD		0.0	Months	0.0		0.0		2.9 5.4		43.7 98.4
CONTRACT DATES:	FY 2003:	Feb-03			F	Y 2004:	Nov-03				FY 2005:	N	lov-04				FY 2006:		Nov-05	
DELIVERY DATES:	FY 2003:	Jun-03			F	Y 2004:	Mar-04				FY 2005:	N	lar-05				FY 2006:		Mar-06	
INSTALLATION SCHEDULE:	PY	1	<u>FY04</u>	<u>4</u> 3	4		1	<u>FY0</u> 2	<u>5</u> 3	4	-		1	<u>FY06</u>	3	4				
INPUT	233	0	4	8	5		4	4	3	2			1	2	3	3				
OUTPUT	233	0	4	8	5		4	4	3	2			1	2	3	3				
INSTALLATION SCHEDULE:		1	<u>FY07</u> 2	<u>7</u> 3	4		1	<u>FY0</u> 2	<u>8</u> 3	4	_		1	<u>FY 09</u>	<u>9</u> 3	4	_	TC		TOTAL
INPUT																		11		283

# Notes/Comments

OUTPUT

PY - Four test units procured in FY99. No install required.

NECC cost includes addition of MDR (TIP) capability and backfit phase-in beginning in FY02. MDR (TIP) capability is integrated into NECC Chassis.

11

283

February, 2004

Total

321500

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR107
MODELS OF SYSTEMS AFFECTED: EHF Tel

EHF Terminals -- NECC - Shore

DESCRIPTION/JUSTIFICATION: Provides for satellite communications connectivity between shore stations, submarines, and surface ships; includes network management, multiplexing and channel sharing, resource management, communications

management/planning; network control/monitoring; circuit switching and packet switching.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)											
	PY Qty	FY 02	FY 03	FY 04		FY				TC Total	<u>al</u>
	Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty	\$ Qty \$	Qty \$ Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring											
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	46	4.9 9	1.2 Var.	0.6 6	0.8 3	0.7 3	0.7 0	0.0 0	0.0 0 0.0	67	8.9
Production Support Other (DSA)		1.0	0.2		0.1	0.1					1.4
Other (Test Units) Interim Contractor Support	2	0.3								2	0.3
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP	46 46	3.0 9 3.0 9	2.3 Var. 2.3	0.3 6	1.9 3	0.7 3	0.7 0	0.0 0	0.0 0 0.0	0 0.0 67 46 9	8.9 3.0 2.3
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP			Var.	0.3	1.9	0.7				####### 6 3	0.3 1.9 0.7
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP						3	0.7			3 0 0	0.7 0.0 0.0 0.0
FY TC EQUIP										0	0.0
TOTAL INSTALLATION COST		3.0	2.3	0.3	1.9	0.7	0.7	0.0	0.0 0.0	0.0	8.9
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		9.2	3.8	0.8 RATIVE LEAD-TIME:	2.8 1 Months	1.4	1.4 TON LEAD-TIME:	0.0 4 Months	0.0	0.1	19.5
METHOD OF IMPLEMENTATION.			ADMINIST	RATIVE LEAD-TIME.	TIVIOTILIS	PRODUCT	ION LEAD-TIME.	4 MOTHES			
CONTRACT DATES:	FY 2003:	NA		FY 2004:	Nov-03		FY 2005:	Nov-04	FY	2006:	
DELIVERY DATES:	FY 2003:	NA		FY 2004:	Mar-04		FY 2005:	Mar-05	FY	2006:	
INSTALLATION SCHEDULE:	PY	1	2 <u>FY04</u> 3	4	1	<u>FY05</u> 2 3	4	1	<u>FY06</u> 2 3 4		
INPUT	55		2 2	2		1 1	1		1 1 1		
OUTPUT	55		2 2	2		1 1	1		1 1 1		
			FY07			FY08			FY 09		

### Notes/Comments

INPUT

OUTPUT

INSTALLATION SCHEDULE:

PY - Two test units procured in PY will not be installed.

FY02 - NECC cost includes MDR (TIP) capability integrated into NECC Chassis.

FY03 - In FY03, funds are used to procure and install TIP cards, not NECC quantities.

TOTAL

67

MODIFICATION TITLE: Satellite Communications Systems COST CODE

321500

MODELS OF SYSTEMS AFFECTED:

NR107

EHF Terminals--MDR Appliques - Ship

DESCRIPTION/JUSTIFICATION: Provides for Applique and Antenna upgrades to the existing AN/USC-38 Low Data Rate (LDR) terminal to enable Medium Data Rate (MDR) communications capability.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

(,	D) (	=										= 1.4.0	_	=>								
	PY Qty	<u>FY (</u> \$ Qt	) <u>2</u> , \$	FY 03 Qty	\$	Qty	<u>04</u> \$1	FY 05 Qtv	\$	FY (	<u>06</u> \$	FY 0 Qty	<u>7</u> sl	FY 08 Qty	s s	FY 09	<u>9</u> sl	TC Qtv	s	Qtv	Total \$	٠l
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	61	27.1 0	0.0	0	0.0	Qty 0	0.0	0	0.0	0	0.0	0	0.0	O O	0.0	O O	0.0	0	0.0	Gty 61	27.1	
Production Support Other (DSA) Other Interim Contractor Support		2.9 8.4	0.1 0.2		0.1 0.1																3.1 8.7	
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	45 45	12.3 2 12.3 2	0.9	1	0.8 0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	48 48 0 0 0 0 0 0 0 0	14.1 14.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
TOTAL INSTALLATION COST		12.3	0.9		0.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		14.1	1
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		50.8	1.2		1.0 RATIVE LEAI	D-TIME:	0.0		0.0	PRODUCT	0.0 TION LEA	AD-TIME:	0.0	15 Months	0.0		0.0		0.0		52.9	1
CONTRACT DATES:	FY 2003:	N/				FY 2004:		NA				FY 2005:		NA			-	FY 2006:		NA		
DELIVERY DATES:	FY 2003:	NA.	1			FY 2004:		NA				FY 2005:		NA			1	FY 2003:		NA		
INSTALLATION SCHEDULE:	PY	1	<u>FY</u> 2	<u>04</u> 3	4		-	11	<u>FY05</u> 2	3	4		-	1	2 FY	<u>3</u>	4					
INPUT	48																					
ОИТРИТ	48																					
			FY	07					FY08	<b>R</b>					FY	09						
		1	2	3	4		_	1	2	3	4			1	2	3	4		TC		TOTAL	
INSTALLATION SCHEDULE:							-						-						0		48	
INPUT																			J		-10	

# OUTPUT

Notes/Comments

MDR Applique installation plan reflects ten (10) transferred to shore and installed in PY. Three tests assets required no install.

MDR Functionality incorporated in to AN/USC-38(V) Terminal.

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR112

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--INMARSAT B (Ship)

DESCRIPTION/JUSTIFICATION: Provides upgrade to the older INMARSAT A terminals giving ships the capability for Official phones, STU III, Debit Card Crew Phones, Internet, E-Mail, PC to PC, Video Teleconferencing and Facsimile.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	<u>PY</u>		FY 02		FY 03		FY 0		FY 05		FY		FY		FY (		FY		<u>TC</u>		Tota	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Upgrade Equipment Nonrecurring Engineering Change Orders Data	232	11.1	1	0.1	9	0.6															242 0 0	11.8 0.0 0.0
Training Equipment Production Support Other (DSA) Interim Contractor Support		8.5 2.1		3.4 0.8		0.7 0.3																12.6 3.2
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	212 212	20.0	20 20	5.0 5.0	9	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0.0	241 232 0 9 0 0 0 0 0	28.0 25.0 0.0 3.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		20.0		5.0		3.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	U	28.0
TOTAL PROCUREMENT		41.8		9.3		4.6		0.0		0.0		0.0		0.0		0.0		0.0		0.0		55.7
METHOD OF IMPLEMENTATION:				4	ADMINISTR	RATIVE LEA	AD-TIME:		3 Months		PRODUC <sup>*</sup>	TION LE	AD-TIME:		3 Months							
CONTRACT DATES:	FY 2003:		Nov-02				FY 2004:		NA				FY 2005:		NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		Feb-03				FY 2004:		NA				FY 2005:		NA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	_	1	2 <u>FY</u> (	<u>04</u> 3	4			1	<u>FY0</u> 2	<u>5</u> 3	4	=		1	2 <u>FY</u>	<u>06</u> 3	4	-			
INPUT	241																					
OUTPUT	241																					
INSTALLATION SCHEDULE:		=	1	<u>FY0</u>	<u>07</u> 3	4			1	<u>FY0</u> 2	3	4	_		1	<u>FY</u> 2	<u>09</u> 3	4		TC		TOTAL
INPUT																				0		241
OUTPUT																				0		241

#### Notes/Comments

PY install unit cost due to primarily single antenna systems, FY02-FY03 install unit cost primarily due to dual antenna systems FY02 procured one INMARSAT B terminal for Shock testing. No install funds required.

FY 04

FY 05

FY 06

FY 07

FY 08

FY 09

TC

MODIFICATION TITLE: Satellite Communications Systems 321500

FY 03

COST CODE NR112
MODELS OF SYSTEMS AFFECTED: Comm.

Comm. Satellite--INMARSAT B (Ship) Equip. Upgrade - Handover

FY 02

PY

DESCRIPTION/JUSTIFICATION: Provides automatic handover to "dual" configured INMARSAT B ships. Provides enhanced voice capability and increased blockage profile.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Qty	\$	Qty	\$	Qty	9	Qty	\$	Qty	\$	Qty	\$	Qtv	\$	Qty	\$	Qtv	<u>\$</u>	Qtv	<u> </u>	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	4	0.1	17	0.6	1	0.04									,						22	0.7
Training Equipment Production Support Other (DSA) Interim Contractor Support																						0.0 0.0
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP	0	0.0	0	0.0	14 1 13	1.1 0.1 1.0		0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		0.0	15 1 13 1 0 0 0 0 0	1.2 0.1 1.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		0.0		0.0	ADMINIST	1.1 1.2		0.1 0.1	2 Months	0.0	PPODLICTI	0.0 0.0	D TIME:	0.0	Months	0.0		0.0		0.0	-	1.2
TOTAL INSTALLATION COST	FY 2003:	0.1	Nov-02	0.6	ADMINIS7			0.1	3 Months NA	0.0	PRODUCTI	0.0 ION LEA	D-TIME: FY 2005:	0.0	Months NA			0.0	FY 2006:	0.0	NA	1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:	FY 2003: FY 2003:	0.1	Nov-02 Feb-03	0.6	ADMINIST	1.2	AD-TIME:	0.1		0.0	PRODUCTI	0.0 ION LEA		0.0				0.0	FY 2006:	0.0	NA NA	1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES:		0.1		0.6		1.2	AD-TIME: FY 2004:	0.1	NA	0.0		0.0 ION LEA	FY 2005:	0.0	NA		<u>06</u> 3	0.0		0.0		1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES:	FY 2003:	0.1		0.6 FY	<u>04</u>	1.2 FRATIVE LE	AD-TIME: FY 2004:	0.1	NA	0.0 F FY05	i	0.0 ION LEA	FY 2005:	0.0	NA	0.0 FYC	0 <u>6</u> 3	0.0		0.0		1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:  CONTRACT DATES:  DELIVERY DATES:  INSTALLATION SCHEDULE:	FY 2003:	0.1	Feb-03	0.6 FY	<u>04</u>	1.2 FRATIVE LE	AD-TIME: FY 2004:	0.1	NA	0.0 F FY05	i	0.0 ION LEA	FY 2005:	0.0	NA	0.0 FYC	0 <u>6</u> 3	0.0		0.0		1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:  CONTRACT DATES:  DELIVERY DATES:  INSTALLATION SCHEDULE: INPUT	PY 2003:	0.1	Feb-03	0.6 FY	0 <u>4</u> 3	1.2 FRATIVE LE	AD-TIME: FY 2004:	0.1	NA	0.0 F FY05	3	0.0 ION LEA	FY 2005:	0.0	NA	0.0 FYC	3	0.0		0.0		1.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:  CONTRACT DATES:  DELIVERY DATES:  INSTALLATION SCHEDULE: INPUT OUTPUT	PY 2003:	0.1	Feb-03	0.6 <u>FY</u> 1 2	0 <u>4</u> 3	1.2 FRATIVE LE	AD-TIME: FY 2004:	0.1	NA	0.0 F	i 3	0.0 ION LEA	FY 2005:	0.0	NA	9.0 FY(	3	0.0		0.0		1.2 1.9

Notes/Comments

PY - 3 test/lab units do not require installation

FY02 - 4 antenna handover units to be TYCOM assets. Do not require install funds.

FY03 - One installation delayed until FY04 due to ship availability.

February, 2004

Total

MODIFICATION TITLE: Satellite Communications Systems 321500

NR112 COST CODE

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--INMARSAT B (Ship) Equip. Upgrade - 128Kbps Wideband

DESCRIPTION/JUSTIFICATION: Provides increased bandwidth (upto 128kbps) to the existing INMARSAT B (64 kbps) hardware

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL	ы	ΔNI·	21	in	millione'	١
FINANCIAL	FL	MIN.	(D	ш	HIIIIIIOHS.	,

FINANCIAL PLAN: (\$ IN MIIIIONS)																						
	PY Qty	<u> </u>	FY 02	-1	FY 03 Qty	-1	FY 04		FY 05	-1	<u>FY</u>		FY 07		FY 0		FYC		<u>TC</u>	<u>.</u>	Tota	<u>al</u>
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment	Qty	\$	Qty	\$	Qty 20	0.6	Qty 80	2.3	Qty 86	\$.5	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 186	5.4
Equipment Nonrecurring Engineering Change Orders Data Training Equipment						0.3															0	0.3
Production Support Other (DSA) Interim Contractor Support						0.0		1.7		1.7												3.4 0.0
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP	0	0.0	0	0.0	8	0.3	84	1.7	92	1.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	184 0 0	3.8 0.0 0.0
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY TC EQUIP					8	0.3	10 74	0.2 1.5	6 86	0.1 1.7										0.0	18 80 86 0 0 0 0	0.5 1.6 1.7 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.0		0.0		0.3		1.7		1.8 6.0		0.0		0.0		0.0		0.0		0.0		3.8
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		0.0			ΔΠΜΙΝΙΙΩΤΙ	1.2 RATIVE LEA	D-TIME:	5.7	3 Months		PRODUC	U.U TION LEA	D-TIME:	0.0	3 Months	0.0		0.0		0.0		13.0
WETTOD OF IN ELMENTATION.					ADMINIOT	VATIVE LEA	ID-TIIVIL.		o Months		I KODOO	TION LLA	ND-TIIVIL.		3 Months							
CONTRACT DATES:	FY 2003:	N	Mar-03				FY 2004:		Nov-03				FY 2005:		Nov-04				FY 2006:		NA	
DELIVERY DATES:	FY 2003:	J	Jun-03				FY 2004:		Feb-04				FY 2005:		Feb-05				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY		1	2 <u>FY</u>	<u>3</u>	4		•	1	<u>FY05</u> 2	<u>5</u> 3	4			1	2 <u>FY</u>	<u>06</u> 3	4	_			
INPUT	8			16	38	30			6	28	29	29										
OUTPUT	0			24	18	25			25	6	28	29			29							
INSTALLATION SCHEDULE:		_	1	<u>FY</u>	0 <u>7</u> 3	4		-	1	<u>FY08</u>	<u>3</u> 3	4			1	<u>FY</u> 2	<u>09</u> 3	4		TC		<u>TOTAL</u>

INPUT OUTPUT

184

184

February, 2004

Notes/Comments

FY03 includes \$300K NRE

FY03 - 2 units are test terminals. No install required.

321500

MODIFICATION TITLE: Satellite Communications Systems COST CODE

NR112

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--INMARSAT B (Shore)

DESCRIPTION/JUSTIFICATION: Provides upgrade to the older INMARSAT A terminals providing the capability for Official phones, STU III, Debit Card Crew Phones, Internet, E-Mail, PC to PC, Video Teleconferencing and Facsimile.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

•	IIIAIICIA	<b>\L</b> F	LAN.	(ψ	 IIIIIOIIIS	,

	PY Qty	FY 02 \$ Qty	sl C	<u>′ 03</u> Qty	FY 0	94 <u>FY (</u>	<u>)5</u> Qty \$	FY Qtv	06 \$	<u>FY 07</u> Qty	sl Q	FY 08	\$ Qty	<u>09</u> \$	TC Qty	\$	<u>Tc</u> Qty	o <u>tal</u> «I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Upgrade Engineering Change Orders Data Training Equipment Production Support Other (DSA)	Saty	4	0.3	,	y Sary		vecy v	Saty	V	ucy	Ψ	y	ų diy		vacy	<u> </u>	4	0.3
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	0	0.0 4	0.2	0 0.1	0	0.0 0	0.0	0	0.0	0	0.0	0.	0 0	0.0	0	0.0	4 0 4 0 0 0 0 0 0 0	0.2 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		0.0	0.2 0.6	0.0		0.0	0.0		0.0		0.0	0.		0.0		0.0		0.2
METHOD OF IMPLEMENTATION:		0.0		MINISTRATIVE				<u> </u>	0.0			DUCTION L			3 Months	0.0[		0.0
CONTRACT DATES:	FY 2003:	NA			FY 2004:	NA				FY 2005:	N	A			FY 2006:		NA	
DELIVERY DATES:	FY 2003:	NA			FY 2004:	NA				FY 2005:	N	A			FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	1	<u>FY04</u> 2	3 4	_	1	2 <u>FY</u>	<u>′05</u> 3	4		1	2	<u>Y06</u> 3	4				
INPUT	4																	
OUTPUT	4																	
INSTALLATION SCHEDULE:		1	<u>FY07</u> 2	3 4	_	1	<u>FY</u> 2	<u>′08</u> 3	4		1	<u>!</u> 2	<u>Y09</u> 3	4	_	TC		<u>TOTAL</u>
INPUT																0		4
OUTPUT																0		4

February, 2004

321500

MODIFICATION TITLE: COST CODE Satellite Communications Systems

NR112

MODELS OF SYSTEMS AFFECTED:

Comm. Satellite--INMARSAT B HSD KITS

DESCRIPTION/JUSTIFICATION: Provides upgrade to the INMARSAT B terminals giving ships the capability for simultaneous official phones, STU III, debit card crew phones, internet, e-mail, PC to PC, video teleconferencing and facsimile over a

64 kpbs channel.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL	PLAN:	(\$ in	millions)	
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	PY Qty	\$	FY 02 Qty	\$	FY 03 Qty	s	FY 0 Qty	<u>)4</u> \$	FY 05 Qtv	\$	<u>FY</u> Qtv	<u>06</u> \$	FY C	<u>)7</u> \$	<u>FY 08</u> Qty	<u>3</u> \$	<u>FY (</u> Qty	<u>09</u> \$	TC Qty	\$	Qty	otal \$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support	152	5.1	8	0.1	Gty 4	0.1	8 8	0.1	Qty	•	<u> Giy</u>	\$	Qty	•	uly	\$	Цty	•	Qiy	<b>4</b>	172	5.4
Other (DSA)		0.4		0.4		0.0		0.0														0.4
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	150 150	8.9 8.9	10 2 8	0.7 0.1 0.6	4	0.4	8	0.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	172 152 8 4 8 0 0 0 0	10.5 9.0 0.6 0.4 0.5 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		8.9		0.7		0.4		0.5		0.0		0.0		0.0		0.0		0.0		0.0		10.5
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		14.6		1.4	ADMINIST	0.6 RATIVE LI	EAD-TIME:	1.0	3 Months	0.0	PRODUC <sup>*</sup>	0.0 FION LEA		0.0	3 Months	0.0		0.0		0.0		17.5
CONTRACT DATES:	FY 2003:		Nov-02			ı	FY 2004:		Nov-03				FY 2005:		NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		Feb-03			ı	FY 2004:		Feb-04				FY 2005:		NA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	-	1	2 <u>FY</u>	0 <u>4</u> 3	4			1	2 <u>FY</u> (	<u>3</u>	4		-	1	2 <u>FY</u>	<u>06</u> 3	4	-			
INPUT	164			4	4																	
OUTPUT	164				4	4																
INSTALLATION SCHEDULE:		-	1	<u>FY</u> (	0 <u>7</u> 3	4			1	<u>FY0</u> 2	<u>3</u>	4		-	1	<u>FY</u> 2	<u>09</u> 3	4		TC		<u>TOTAL</u>
INPUT																				0		172
OUTPUT																				0		172

Notes/Comments

321500

MODIFICATION TITLE: Satellite Communications Systems COST CODE

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--C band/CWSP (Ship)

Provides C and Ku wide band SATCOM terminals supporting capabilities such as Automated Digital Multiplexing System (ADMS), telemedicine, official and unofficial phones, public affairs officer information, imagery, Meteorology and Oceanography Command (METOC). DESCRIPTION/JUSTIFICATION:

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FINANCIAL PLAN: (\$ in millions)

· · · · · · · · · · · · · · · · · · ·																						
	PY Oth	s	FY 02	s.	FY 03	\$	FY (		FY 05	\$	FY.		FY.	<u>07</u> \$		Y 08	FY.		TC	\$	<u>Tc</u>	otal
RDT&E PROCUREMENT: Kit Quantity Installation Kits	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	- 5
Installation Kits Nonrecurring Equipment Equipment ( Upgrade) Equipment Nonrecurring Engineering Change Orders	31 8	27.6 3.9	0	0.0	0 Var.	0.0 0.5		0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31 var	27.6 4.4
Data Training Equipment Production Support Other (DSA) Interim Contractor Support	2	2.6 3.7 0.6		0.8 0.3		0.4 0.2		0.2													2	2.6 5.0 1.4
Installation of Hardware Installation of Hardware Installation of Hardware(Upgrade) PRIOR YR EQUIP PRIOR YR EQUIP (Upgrade) FY 02 EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP	27 8 27 8	30.5 4.2 30.5 4.2	1	1.6 1.6		1.5 1.5		1.2	-	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31 8 31 8 0 0 0 0 0 0 0	34.8 4.2 34.8 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		34.7		1.6		1.5		1.2		0.0		0.0		0.0		0.0		0.0		0.0		39.0
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION:		73.3 Δ	DMINIST	2.7	LEAD-TIME	2.6	3 Months	1.4		0.0	PRODUC	0.0 TION LEA	D-TIME:	0.0	6-9 Mont	0.0	nths for upg	0.0		0.0		79.9
CONTRACT DATES:	FY 2003:		IA				FY 2004:		NA				FY 2005:		NA		ano ioi apg	·uuoo,	FY 2006:		NA	
DELIVERY DATES:	FY 2003:	Ν	IA.				FY 2004:		NA				FY 2005:		NA				FY 2006:		NA	
				FY	04					FY	<u>05</u>					E'	<u> 106</u>					
INSTALLATION SCHEDULE:	PY	_	1	2	3	4			1	2	3	4			1	2	3	4	=			
INPUT	38		1																			
OUTPUT	38			1																		
				<u>FY</u>						<u>FY</u> (							<u>/ 09</u>					
INSTALLATION SCHEDULE:		_	1	2	3	4	-		1	2	3	4	-		1	2	3	4		TC		TOTAL
INPUT																				0		39
OUTPUT																				0		39

### Notes/Comments

PY: No install funds required for training equipment.

FY03: Procure Commercial SATCOM antenna feedhorn equipment for upgrade from C-band to Ku-band capability. Installation will be performed by shipboard personnel.

FY03 :Install costs less than other years due to hull type (MHC).

FY04: Install cost increase due to requirement for a sponson.

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR112

MODELS OF SYSTEMS AFFECTED: Comm. Satellite--C band/CWSP (Shore)

DESCRIPTION/JUSTIFICATION: Provides C and Ku wide band SATCOM terminals supporting capabilities such as Automated Digital Multiplexing System (ADMS). Telemedicine, official and unofficial phones, public affairs officer information, imagery,

321500

Meteorology and Oceanography Command (METOC).

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																					
	PY Other	FY 02	\$	FY 03	اء	FY C		FY 05	اء	FY C			07	FY			<u>′ 09</u> \$	TC			otal
RDT&E PROCUREMENT: Kit Quantity	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation Kits Installation Kits Nonrecurring Equipment Equipment ( Upgrade) Equipment Nonrecurring Engineering Change Orders Data		9	1.8	0	0.0	Var.	0.6	Var.	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	Var.	3.1
Training Equipment Production Support Other (DSA)			0.5		0.0		0.3		0.1											0	1.0
Interim Contractor Support Installation of Hardware* Installation of Hardware(Upgrade)* PRIOR YR EQUIP PRIOR YR EQUIP (Upgrade)		5	0.8	4	1.1	Var.	0.3	Var.	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	Var. 0 0 0	2.5 0.0 0.0 0.0
FY 02 EQUIP FY 02 EQUIP (Upgrade) FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP		5	0.8	4	1.1	Var.	0.3	Var.	0.2											9 0 Var. Var. 0 0 0	1.9 0.0 0.0 0.3 0.2 0.0 0.0 0.0
FY TC EQUIP	0.0		0.0		4.4		0.0		0.2		0.0		0.0		0.0		0.0		0.0	0	0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT	0.0		0.8 3.1		1.1		0.3 1.2		1.2		0.0		0.0		0.0		0.0		0.0		2.5 6.6
METHOD OF IMPLEMENTATION:	0.0			ADMINIST		LEAD-TIME		1 Month		PRODUCTI		D-TIME:		6 Months	0.0		0.0		0.0		0.0
CONTRACT DATES:	FY 2003:					FY 2004:						FY 2005:						FY 2006:			
DELIVERY DATES:	FY 2003:					FY 2004:						FY 2005:						FY 2006:			
INSTALLATION SCHEDULE:	PY	1	2 2	<u>704</u> 3	4			1	<u>FY</u> 2	<u>'05</u> 3	4			1	<u>FY</u> 2	<u>'06</u> 3	4	=			
INPUT	9	Various						Various													
OUTPUT	9																				
INSTALLATION SCHEDULE:		1	<u>F\</u> 2	<u>707</u> 3	4			1	<u>FY</u> 2	<u>'08</u> 3	4			1	<u>FY</u> 2	09 3	4		TC		<u>TOTAL</u>
INPUT																			0		Var.
OUTPUT																			0		Var.

#### Notes/Comments

FY04 - Procurement quantities consist of PAC transponder and gateway equipment, Norfolk/Martelsham T-3 equipment, second Hawaii gateway hardware, modems and infrastructure upgrades.

FY05- Procurement quantities consist of European gateway equipment and modems.

EV 05

EV 06

EV 07

EV No

EV no

Total

MODIFICATION TITLE: Satellite Communications Systems 321500

EV 02

EA U3

COST CODE MODELS OF SYSTEMS AFFECTED:

NR117

Global Broadcast Service-- Single (Receive Suite)

GBS with single antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment. DESCRIPTION/JUSTIFICATION:

EV N/

## DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

	PY Qty	FY.	02	FY 03	- 1	FY 04	FY 05	اء	FY 06		FY 07	ام	FY 08		FY 09		TC		<u>I</u>	<u>otal</u>
RDT&E	Qty	\$ Q	ty \$	Qty	\$	Qty	\$ Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																				
Equipment Equipment Backfit/Upgrade Kit IP Backfit Engineering Change Orders	17	8.3	0.0	0	0.0	0 0.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34 7	26.9 4.1	51 7	35.2 0.0 4.1
Other Training Equipment		0.8																		0.8
Production Support Other (DSA) Interim Contractor Support		1.6 0.1	0.0		0.2	0.	0	0.0		0.0								2.5		1.6 2.8
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP	0	0.0	0.0	5 5	5.6 5.6	0 0.	0 0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	41	17.5	46 5 0 0 0 0 0 0	23.1 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
FY TC EQUIP FY TC EQUIP - IP Backfii TOTAL INSTALLATION COST		0.0	0.0		5.6	0.	0	0.0		0.0		0.0		0.0		0.0	34 7	17.5 0.7 17.5	34 7	17.5 0.7 23.1
TOTAL PROCUREMENT METHOD OF IMPLEMENTATION		10.9	0.0	ADMINISTR	5.8	0. EAD-TIME:	NA	0.0 F	PRODUCTIO	0.0	D-TIME:	0.0	NA	0.0		0.0		51.0		67.7
CONTRACT DATES:	FY 2003:	NA			FY	Y 2004:	NA			F	FY 2005:	1	NA				FY 2006:			NA
DELIVERY DATES:	FY 2003:	NA			FY	Y 2004:	NA			F	FY 2005:	1	NA				FY 2006:			NA
INSTALLATION SCHEDULE:	PY	1	2 2	<u>704</u> 3	4		1	<u>FY0</u> 2		4		_	1	2 2	<u>06</u> 3	4				
INPUT	5																			
OUTPUT	5																			
INSTALLATION SCHEDULE:		1	2	<u>707</u> 3	4		1	<u>FY0</u> 2	<u>8</u> 3	4		_	1	<u>FY 0</u> 2	1 <u>9</u> 3	4	-	TC		<u>TOTAL</u>
INPUT																		41		46
OUTPUT																		41		46

Notes/Comments

PY - Unit cost varies due to mix of Ship, Shore, and quantity discounts afforded by other Services buys per year.

FY03 - twelve (12) PY assets are being converted to six (6) dual antenna configurations

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE NR117

MODELS OF SYSTEMS AFFECTED: Global Broadcast Service--Dual (Receive Suite)

DESCRIPTION/JUSTIFICATION: GBS with dual antenna configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a single antenna, modems and ancillary hardware and processing equipment.

# DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL	PLAN:	(2 III	millions)	

,	PY Qty	gl	FY 02	sl	FY 03 Qty	\$	FY 04 Qty	\$	FY 05	sl	FY 0		<u>FY 07</u> Qty	\$	FY 08	\$	FY 0	<u>9</u> \$	Qtv T	<u>)</u>	<u>Tot</u> Qty	<u>al</u>
RDT&E PROCUREMENT: Kit - Equipment Conversion	Qty	\$	Qty 6	2.6	Qty	\$	Qty Var.	1.5	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty 6	4.1
Installation Kits Equipment	13	7.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	22.8	36	30.3
IP Backfit NRE IP Backfit Kit - Production Articles KA 1Ghz LNB - ECP Ku Backfit - ECP Other		0.7				8.6	14 73 12	7.1 1.2 1.3	6	4.2									6	4.2	26 73 12	8.6 15.5 1.2 1.3 0.7
Training Equipment Production Support Other (DSA) Interim Contractor Support		1.6 0.7		1.8 1.1		1.2 0.0		1.2 0.4		1.0 0.4										1.9	0	0.0 6.8 4.4
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP - IP/Ku Backfits	8 8	2.6 2.6	5 5	2.7 2.7	5	3.5 3.5	0	0.0	12 6	3.0	0	0.0	0	0.0	0	0.0	0	0.0	30 1	16.7 0.8	60 13 6 0 6	28.5 5.3 4.3 0.0 1.5
FY 05 EQUIP - IP/Ku Backfits FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP FY TC EQUIP									6	1.5									23 6	14.4 1.5	6 0 0 0 0 23 6	1.5 0.0 0.0 0.0 0.0 14.4 1.5
TOTAL INSTALLATION COST TOTAL PROCUREMENT		2.6 13.1		2.7 8.3		3.5 13.3		0.0 12.6		3.0 8.6		0.0		0.0		0.0		0.0		16.7 45.5		28.5 101.3
METHOD OF IMPLEMENTATION:		13.1			DMINISTRA		EAD-TIME:		2 Months		PRODUCTI				6 Months	0.0		0.0		45.5		101.3
CONTRACT DATES:	FY 2003:		NA			ı	FY 2004:		Feb-04				FY 2005:		Feb-05				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		NA			ı	FY 2004:		Aug-04				FY 2005:		Aug-05				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	_	1	<u>FY0</u> -2		4		-	1	<u>FY0</u> 2	1 <u>5</u> 3	4			1	2 FY	<u>′06</u> 3	4				
INPUT	18								3	3		6										
OUTPUT	18									3	3	6										
INSTALLATION SCHEDULE:			1	<u>FY0</u> :		4			1	<u>FY0</u> 2	1 <u>8</u> 3	4			1	<u>FY</u> 2	<u>′09</u> 3	4	_	TC		<u>TOTAL</u>
INPUT		-						-											. <del>-</del>	30		60
OUTPUT																				30		60

### Notes/Comments

PY - Unit cost varies due to mix of Ship, Shore, and quantity discounts afforded by other Services buys per year.

FY02 - Six equipment conversion kits purchased to convert twelve (12) PY single antenna assets to six (6) dual antenna configurations.

FY04 Various: Procurement of Sub components to complete IP Conversion and PITCO of IP Backfit Kits

FY04 - 8 IP Back Fit Kit Production Articles are C4I lab assets and do not require installation.

FY04 - KA 1Ghz LNB is LRU and does not require installation funds

FY04 10 Ku Backfit Kits are installed in FY05 in conjunction with the 10 IP Backfit Kit installations. The other 2 Ku Backfit Kits are trainers and do not require install.

MODIFICATION TITLE: Satellite Communications Systems 321500

COST CODE MODELS OF SYSTEMS AFFECTED

Global Broadcast Service--Subs (Receive Suite)

DESCRIPTION/JUSTIFICATION: GBS with submarine configuration: Commercial off the shelf (COTS) receive only satellite communications terminals with a SubHdr antenna modification, modems and ancillary hardware and processing equipment.

### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES FINANCIAL PLAN: (\$ in millions)

	PY Qty	FY 02 \$ Qtv	\$	FY 03 Qty	\$	FY 04 Qtv	sl <u>E</u>	<u>Y 05</u> Qty	\$	<u>FY</u> Qtv	<u>06</u> \$	FY 07 Qty	<u>7</u> \$	FY (	0 <u>8</u> \$	<u>FY</u> Qty	09 \$	TC Qty	<u>2</u> \$	Qty	otal \$
RDT&E PROCUREMENT:	Qty	φ Qty	φ	Qiy	φ	Qiy	Ψ	Qty	φ	Qty	φ	Qty	φ	Qty	φ	Qty	Ą	Qiy	ų.	Qty	φ
Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring IP Backfit	22	6.5 10	2.9	0	0.0	0 21		0	0.0	0	0.0		0.0	0	0.0	0	0.0	34	20.1	66 30	29.5
Data Training Equipment Production Support Other (DSA) Interim Contractor Support		4.6 1.1	1.8 0.2		1.7 0.4		0.5 1.3		0.6 0.5										2.3		9.2 5.8
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP	13 13	1.6 10 1.6 6 4	1.5 0.9 0.6		0.9	0		30 21 9	3.0 2.1 0.9	0	0.0	0	0.0	0	0.0	0	0.0	34	5.1	93 19 10 0 21 9	12.1 2.5 1.5 0.0 2.1 0.9 0.0
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TO EQUIP FY TC EQUIP - IP Backfii TOTAL INSTALLATION COST TOTAL PROCUREMENT		1.6	1.5 6.4		0.9		0.0		3.0 9.1		0.0		0.0		0.0		0.0	34	5.1 5.1 27.5	0 0 0 34 0	0.0 0.0 0.0 5.1 0.0 12.1 68.9
METHOD OF IMPLEMENTATION					RATIVE LE	AD-TIME:		onths	F	RODUC		AD-TIME:		6 Months							
CONTRACT DATES:	FY 2003:	Jan-03			FY	′ 2004:	Feb-	-04				FY 2005:	ı	eb-05				FY 2006:			
DELIVERY DATES:	FY 2003:	Jul-03			FY	2004:	Aug	-04				FY 2005:	,	Aug-05				FY 2006:			
INSTALLATION SCHEDULE:	PY	1	2 2	<u>Y04</u> 3	4			1	<u>FY05</u> 2	3	4		_	1	2 <u>F</u>	<u>Y06</u> 3	4				
INPUT	29							7	6	10	7										
OUTPUT	29								7	6	10			7							
INSTALLATION SCHEDULE:		1	<u>F)</u> 2	<u>Y07</u> 3	4			1	<u>FY08</u> 2	<u>3</u> 3	4			1	<u>FY</u> 2	<u>′ 09</u> 3	4		TC		<u>TOTAL</u>
INPUT												•	-					· <del>-</del>	34		93
OUTPUT																			34		93

# Notes/Comments

PY - Unit costs vary due to mix of Ship, Submarine and Shore terminal configurations and to quantity discounts afforded by other Services buys per year.

FY01 - (3) sub-surface receive suites (SSRS) to be used as training equipment at SubSchool Groton were installed with shore funds.

FY 02 procurement cost include enclosure fabrication, performance of integration testing and PITCO.

MODIFICATION TITLE: Satellite Communications Systems

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

COST CODE

Global Broadcast Service - Shore

Global Broadcast Service, commercial off-the-shelf (COTS) receive only satellite communications terminals with antennas, modems, and ancillary hardware and processing equipment

321500

Navy portion of joint services program to deliver continuous, high speed, one way information flow of high volume data to ship and shore units and special operations.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY Qty	\$	FY 02 Qty	\$	FY 03 Qty	\$	FY 04 Qtv	\$	FY 05 Qty	\$	<u>FY</u> Qtv	<u>06</u> \$	<u>FY 07</u> Qty	\$	FY 08 Qtv	\$	FY 09 Qty	) \$	TC Qty	sl.	Qtv	otal «I
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Gity	φ	Qty	φ	Qiy	φ	uty	φ	Giy	φ	Qty	Ψ	Qty	φ	Qiy	Ψ	uty	Đ	Qiy	φ	Qty	φ
Requipment Equipment Backfit - IP Backfit Engineering Change Orders Data	15	2.4	0	0.0	0	0.0	0 12	0.0 1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	2.3	27 12	4.7 1.5
Training Equipment - Backfit kits Production Support Other (DSA) Interim Contractor Support		0.2 0.3		0.0		0.0	7	2.8 0.5 0.4		0.0											7	3.0 0.8 0.4
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	7 7	1.2 1.2	11 11	1.9 1.9	0	0.0	0	0.0	19	0.4	0	0.0	0	0.0	0	0.0	0	0.0	12	0.2	49 18 0 0	3.7 3.1 0.0 0.0
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TO EQUIP									19	0.4									12	0.2	19 0 0 0 0 0	0.4 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		1.2		1.9		0.0		0.0		0.4		0.0		0.0		0.0		0.0		0.2		3.7
TOTAL PROCUREMENT		4.1		1.9		0.0		5.3		0.4		0.0		0.0		0.0		0.0		2.6		14.2
METHOD OF IMPLEMENTATION					ADMINISTR	ATIVE	LEAD-TIME:	: 2	2 Months	F	PRODUC	TION LEA	AD-TIME:	6	Months back	rfits, 8 M	onths trainers	3				
CONTRACT DATES:	FY 2003:		Mar-03				FY 2004:		Feb-04				FY 2005:	1	NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		Sep-03				FY 2004:		Oct-04				FY 2005:	1	NA				FY 2006:		NA	
INSTALLATION SCHEDULE:	PY		1	2 <u>FY</u>	<u>04</u> 3	4		_	1	<u>FY05</u> 2	3	4	<u>.</u>	_	1	2 2	<u>06</u> 3	4	<u>.</u>			
INPUT	18								6	6	4	3										
OUTPUT	18									6	6	4			3							
				<u>FY</u>	<u>07</u>					FY08						<u>FY</u>	09					
INSTALLATION SCHEDULE:			11	2	3	4		_	11	2	3	4		-	1	2	3	4	. <u> </u>	TC		TOTAL
INPUT																				12		49
ОИТРИТ																				12		49

#### Notes/Comments

PY - GBS procurement funds procured (3) sub-surface receive suites (SSRS) to be installed as training equipment at SubSchool Groton.

FY 04 - GBS training equipment includes 3 Sub IP Backfit for TTF, 2 trainers for sub-school (Groton), and 2 Dual antenna systems for FTC San Diego and FTC Norfolk

February, 2004

February, 2004

321500

MODIFICATION TITLE: COST CODE

Satellite Communications Systems

NR118

MODELS OF SYSTEMS AFFECTED:

JMINI Control System - NMS

The Network Management System (NMS) component of the JMINI Control System provides communications resource planning and management via secure WAN connections between the control stations and remote user. Will provide dynamic centralized control of joint operable 5 KHz and 25 KHz ultra high frequency military satellite communications. DESCRIPTION/JUSTIFICATION:

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN: (\$ in millions)																						
	PY Qty	\$	FY 02 Qty	s	FY 03 Qtv	sI	FY 04 Qtv	sl	FY 05 Qtv	\$	<u>FY</u> Qty	<u>06</u> \$	FY 07	<u>7</u> \$	FY 0 Qtv	<u>8</u> \$	FY (	<u>)9</u> \$	TC Qty	\$	Qtv	Total e
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data	13	32.5		12.6	7	4.0	12	7.7	10	6.2	0	0.0	0	0.0	0	0.0		0.0	0	0.0	Gty 64	63.0
Training Equipment Production Support Other (DSA)		0.7		2.6		0.2		1.0		0.6												5.2
Interim Contractor Support Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP	8 8	1.4 1.4	9 5 4	0.5 0.3 0.2	20 18 2	1.2 1.1 0.1	17 5	0.7	10	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	64 13 22 7	3.9 1.6 1.3 0.3
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP							12	0.5	10	0.2											12 10 0 0 0 0	0.5 0.2 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		1.4		0.5		1.2		0.7		0.2		0.0		0.0		0.0		0.0		0.0		3.9
TOTAL PROCUREMENT		34.6		15.6		5.4		9.4		7.1		0.0		0.0		0.0		0.0		0.0		72.1
METHOD OF IMPLEMENTATION					ADMINIST	RATIVE	LEAD-TIME:		1 Month		PRODUC	TION LEA	AD-TIME:		6 Months							
CONTRACT DATES:	FY 2003:		Dec-02			ı	FY 2004:		Dec-03				FY 2005:		Oct-04				FY 2006:			
DELIVERY DATES:	FY 2003:		Jul-03			I	FY 2004:		Jul-04				FY 2005:		Jul-05				FY 2006:			
INSTALLATION SCHEDULE:	PY		1	2 2	<u>'04</u> 3	4		-	1	<u>FY0</u> 5	<u>5</u> 3	4		-	1	2 2	<u>′06</u> 3	4				
INPUT	37		5			12						10										
OUTPUT	37		5			12						10										
INSTALLATION SCHEDULE:			1	<u>FY</u> 2	<u>'07</u> 3	4			1	<u>FY08</u> 2	<u>8</u> 3	4			1	<u>FY</u> 2	<u>′09</u> 3	4	· <u>-</u>	TC		TOTAL
INPUT																				0		64
OUTPUT																				0		64

MODIFICATION TITLE: Satellite Communications Systems

COST CODE NR118

JMINI Control System - DMR

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Channel controller hardware (radio/modem/antenna) to meet ORD-mandated satellite channel access requirement. Will provide dynamic centralized control of joint operable 5 KHz and 25 KHz ultra high frequency

321500

military satellite communications

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)	<u>PY</u>		FY 02		FY 03		FY 04		FY 05		FY 06	<u> </u>	FY (	<u>07</u>	FY 08	<u>3</u>	FY 0	19	TC		<u>Tc</u>	otal_
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		\$		\$		\$		\$	Qty	\$		\$
Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment	248	31.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	248	31.8
Production Support Other (DSA) Interim Contractor Support		2.7																			0	2.7
Installation of Hardware* PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY TO EQUIP	236 236	2.7	12 12	0.1 0.1	0	0.0	0	0.0	0	0.0	0	0.0		0.0	0	0.0	0	0.0		0.0	248 248 0 0 0 0 0 0 0 0	2.7 2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST TOTAL PROCUREMENT		2.7 37.3		0.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.7 37.3
METHOD OF IMPLEMENTATION:		07.0			ADMINISTRA		EAD-TIME:		2 Months		PRODUCTION				8 Months	0.0		0.0		0.0		07.0
	FY 2003:		NA				FY 2004:		NA				FY 2005:		NA				FY 2006:		NA	
DELIVERY DATES:	FY 2003:		NA	F) (		ı	FY 2004:		NA	F) (0			FY 2005:		NA	E) (			FY 2006:		NA	
INSTALLATION SCHEDULE:	PY	-	1	2 FY0	3 3	4		-	1	<u>FY0</u>	3	4		•	1	2 2	3	4				
INPUT	248																					
OUTPUT	248																					
INSTALLATION SCHEDULE:		-	1	<u>FY(</u>		4		_	1	<u>FY0</u> 2	3	4		•	1	<u>FY(</u>	<u>3</u>	4	. <u> </u>	TC		TOTAL

Notes/Comments

INPUT

OUTPUT

Note 1: Based on revised ORD, DMR channels procured in FY00 and prior years meet current JMINI requirements

0

February, 2004

248

248

## UNCLASSIFIED CLASSIFICATION

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NR106	SHF TerminalsAN/WSC-6(V)7 - Ship	03		6		6						2	2	2															T									
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			PRODUCTION RAT	E		PROCUREMEN	IT LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
UHF Modems	Via Sat	1	34	400	30	30	180	N/A	240	Days
321500 SHF TerminalsAN/WSC-6(V)5 Mod kits - Ship	Raytheon, Boston, MA	0	3	36	1 mo.	1 mo.	12 mo.	12 mo.	39	
321500 SHF TerminalsAN/WSC-6(V)7 - Ship	Raytheon, Boston, MA	0	3	33	1 mo.	1 mo.	12 mo.	12 mo.	48	
321500 SHF TerminalsAN/WSC-6(V)7 - Shore	Raytheon, Boston, MA	0	3	3	1 mo.	1 mo.	12 mo.	12 mo.	3	

SHF Terminals

NAVMAT FORM 7110/4 (REVISED 11/77)

# UNCLASSIFIED CLASSIFICATION

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			PRODUCTION RATE			PROCUREMEN	T LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
321500 SHF TerminalsAN/WSC-6(V)9 - Ship	Harris, Melbourne, FL	3	3	24	1 mo.	1 mo.	10 mo.	10 mo.	47	
321500 SHF Terminals SUBHDR SHF Mod Kit	Raytheon, MA & Harris, FL	0	7	84	1 mo.	1 mo.	15 mo.	15 mo.	190	
321500 SHF Terminals (V)7 & (V)9 Modems	Raytheon, MA & Harris, FL	0	6	72	1 mo.	1 mo.	12 mo.	12 mo.	190	

NAVMAT FORM 7110/4 (REVISED 11/77)

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NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	02		22	10	12	2	3	2	3	2																												
NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	03		11		11								2	2	1	1	1 2	2 1	1	1	1																	
NR107	EHF TerminalsAN/USC-38(V) FOT - Ship	04		39		39						Α																	6	3	3	3	3	3	3 3	3 3	3	3	3
NR107	EHF TerminalsAN/USC-38(V) FOT - Shore	02		1		1						1																											
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NR107	EHF TerminalsNECC - Ship	04		21		21		Α				4	4	4 5	5	4																	_	$\top$	+	1			$\top$
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			PRODUCTION RATE			PROCUREMEN	T LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
NN107/NP109 - EHF TerminalsAN/USC-38(V)	Raytheon, Marlborough, MA	7	7	84	1	1	18	18	20	EA
NN107/NP109 - EHF Terminals - NECC	AP Labs, Texas								10	EA

NAVMAT FORM 7110/4 (REVISED 11/77)

## UNCLASSIFIED CLASSIFICATION

	CLASSIFICATION																																				
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OP,N - E	3A2 COMMUNICATIONS & ELECTRONIC EQUIPMENT																	Sa	tellite	Com	munio	cation	Sys	tems					321	1500	5	2NR					
			s		ACCEPT	BAL				FIS	CAL	YEAR		04							FISC	AL YE	AR	0	;					FISC	AL YE	AR		06			
COST	ITEM/MANUFACTURER		Е	PROC	PRIOR	DUE	03						CAL	ENDA	R YE	٩R	(	4					C	ALEN	DAR	YEAR		05			C	ALENI	DAR \	YEAR		(	06
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			v		1-Oct	1-Oct	С	О	E	A E	Α .	Р	Α	U	U	U	Е	c c	) E	А	E	Α	Р	Α	Jι	υ	E	С	o v	E C	Α	E /	A P	Α .	U	U	UE
	[	FY					т	v	С	N E	R	R	Υ	N	L	G	Р	тΙν	/ c	N	В	R	R	Υ	N L	. G	Р	т	v	С	N	E A B R	₹R	≀ Y	N	L	G P
NR112	Comm. SatelliteINMARSAT B (Ship) Eq Upgd - 128 Kb	04		80		80		Α		1:	2 12	2 10	10	10	10	10	6												$\Box$								
NR112	Comm. SatelliteINMARSAT B (Ship) Eq Upgd - 128 Kb	05		86		86												P	١ .		14	14	10	10	9 1	0 10	) 9			П				T			
																														П							
NR112	Comm. SatelliteINMARSAT B HSD KITS	04		8		8		Α		4	4																										
NR117	Global Broadcast Service - Backfits/Upgrades	04		Var.		132				P	١					10	10	10 1	0 10	10	10	10	12	12 1	4 1	4											
NR117	Global Broadcast Service - Backfits	05		15		15															Α					7	8										
NR117	Global Broadcast Service - Shore	04		7		7				P	١							4 3	3																		
																														П							
NR118	JMINI Control System - NMS	04		12		12			Α						6	6																					
NR118	JMINI Control System - NMS	05		10		10												Α							5	5 5											
																													$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}}$	Ш	$\bot$	丄	丄	丄	$oldsymbol{ol}}}}}}}}}}}}}}}}}$	$\sqcup$	
							OCT	NOV	DEC J	IAN FE	B MAF	R APR	MAY	JUN	JUL	AUG	SEP	OCT NO	V DE	JAN	FEB	MAR	APR	MAY J	JN JU	L AUG	SEF	OCT	NOV	DEC	JAN	FEB MA	IR APP	R MAY	JUN	JUL	AUG SEP

			PRODUCTION RATE			PROCUREMEN	IT LEAD-TIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
321500 Commercial SATCOM- INMARSAT B	Mackay Communications, Edison, NJ				1 mo.	1 mo.	3 mo.	3 mo.		EA
321500 Commercial SATCOM- INMARSAT B Upgrades - Handover	Mackay Communications, Edison, NJ				1 mo.	1 mo.	3 mo.	3 mo.		EA
321500 Commercial SATCOM- INMARSAT B Upgrades - 128 Kbps	Mackay Communications, Edison, NJ				1 mo.	1 mo.	3 mo.	3 mo.		EA
321500 Commercial SATCOM- INMARSAT B HSD Kits	DNE Technologies, Wallingford, CT				1 mo.	1 mo.	3 mo.	3 mo.		EA
321500 Global Broadcast Service Single (Receive Suite)	Raytheon, Marlborough, MA & Reston, VA	6	12	96	3 mo.	3 mo.	8 mo.	8 mo.	22	
321500 Global Broadcast ServiceDual (Receive Suite)	Raytheon, Marlborough, MA & Reston, VA	6	12	96	3 mo.	3 mo.	8 mo.	8 mo.	29	
321500 Global Broadcast ServiceSubs (Receive Suite)	Raytheon, Reston, VA	1	1	12	3 mo.	3 mo.	6 mo.	6 mo.	70	
321500 Global Broadcast Service - Shore	Raytheon, Reston, VA	1	10	120	3 mo.	3 mo.	8 mo.	8 mo.	54	
JMINI NMS	SAIC	1	10	20	30	30	300	N/A	360	Days

#### CLASSIFICATION

BUDGET ITEM JUSTIFIC	ATION SHE	ET					DATE		February 20	004
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & EL		P-1 ITEM NOMEN Joint Communicat		nent (JCSE) 330200			1		SUBHEAD 52L4	
		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY										
COST (in millions)		\$4.1	\$3.9	\$3.0	\$3.0	\$3.0	\$3.1	\$3.1	Cont	Cont

#### PROGRAM COVERAGE:

This line represents the Navy's share of the Joint Communications Support Element (JCSE) Program. This program is jointly funded by Army, Navy, Marine Corps and Air Force. Funds procure various communications equipment including the following: Extremely High Frequency (EHF) Secure, Mobile, Antijam, Reliable Tactical Terminals (SMART-T), COTS Hub Triband Wide-band High Data Rate Satellite Terminals, Ultra High Frequency (UHF) next generation satellite systems, C4 Extension Package upgrades, PROMINA Smart Multiplexer upgrades, Defense Message System (DMS) Tactical, Joint Worldwide Intelligence Communication System (JWICS), Communications Security (COMSEC) Secure Telephone Equipment (STE), Network COMSEC KG-175, KIV-7 & 19, Omega, GRC-235 NES and Sectera Type I, Joint Network Management System (JNMS), Personal Communications Systems (PCS) to provide seamless integration of commercial cellular service to the tactical network, manpack multi-mode multi-band radios (JTRS) for the quick reaction element, 16 foot Light Weight High Gain Antenna (LHGXAs), cellular phone systems serving between 300-400 subscribers, Contractor Off the Shelf (COTS) TDC switch upgrades, WAN Access for Global Information Grid (GIG) next generation multi-media, Broad Band Campus with Information Assurance (IA) suites, GBS TIP, GBS receive suite upgrades, VTC upgrades and assorted network servers, routers, hubs, transit cases, and multiplexers.

JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

SPACE AND NAVAL WARFARE SYSTEMS COMMAND, SAN DIEGO, CA will act as JCSE's Executive Agent for distribution of funds.

INSTALLATION AGENT:

N/A

# UNCLASSIFIED CLASSIFICATION

	COST ANALYSIS			DATE						February 2004	
	IATION ACTIVITY 2 COMMUNICATIONS AND ELECTRONIC E		P-1 ITEM NOM		t Element (JCSE)	330200			SUBHE 52L4	AD	
				FY 2003			FY 2004			FY 2005	
COST CODE	ELEMENT OF COST	ID CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
L4001	JCSE Modernization	А	1	4,133	4,133	1	3,892	3,892	1	3,023	3,023
Remarks:	TOTAL CONTROL				4,133			3,892			3,023

#### Department of the Navy Other Procurement, Navy Budget Item Justification Sheet Exhibit P-40

FY2005 President's Budget Submission Commander, U. S. Atlantic Fleet

### February 2004

Communications & Elec	tronicEquipment		Item 3303		P-1 Item Nome Electrical Powe		82	
Quantity	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Cost (in Millions)	1.243	1.426	1.291	1.264	1.231	1.256	1.281	

#### **Electrical Power Systems:**

The Electrical Power Program is designed to provide highly reliable, continuous, high quality power subsystems to support Naval Network and Space Operations Command. Basic deficiencies in current power sources, couple with recent telecommunication system trends toward sophisticated, highly reliable, high speed, continuous accurate systems (e.g., various High Frequency, Low Frequency, Very Low Frequency Facilities), necessitate a continuing program to upgrade power systems. The Naval Network and Space Operations Command Electrical Power Plan provides the necessary requirements. In CONUS and overseas, where commercial power is available in sufficient quantity, it is utilized as the base system, even though its overall quality may be poor. Because these commercial systems are continually susceptible to blackout and various other types of power perturbations, suitable quick-start emergency power generators must be available to support operational loads. Some of the operational load is designated as "critical" and requires Uninterruptible Power Supply Systems for instantaneous application in case of loss or disturbance of the primary power source.

## Department of the Navy Other Procurement, Navy Cost Analysis Exhibit P-5

FY2005 President's Budget Submission Commander, U. S. Atlantic Fleet

Program Cost Breakdown Exhibit P-5 Cost Analysis						1							DATE:	February	2004
Appropriation Code/CC/BA/BSA/Item Control Number															
1810 / BA 2 3303		Con	nm & Electro	nics Equip	ment	82									
Cost Elements	eplace 80 KVA UPS SATCOM Site(1 SYSTEM) 1 0.558								FY 06 Total Cost	FY 07 Unit Cost	FY 07 Total Cost	FY 08 Unit Cost	FY 08 Total Cost	FY 09 Unit Cost	FY 09 Total Cost
Replace 80 KVA UPS SATCOM Site(1 SYSTEM) Replace 500 KVA UPS Main Comm Center Replace 400 KVA UPS, SATCOM Facility Replace 200 KVA UPS, SATCOM Site New SCADA System Phase 2, VLF Site Replace 500 KVA UPS Main Comm Center Replace 500 KW Gen, Main Comm Center	1 2 1 3 1 1 2		0.558 0.685		0.680 0.746		0.400 0.394 0.497								
Total			1.243		1.426		1.291		0.000		0.000		0.000		0.000

## Department of the Navy Other Procurement, Navy Budget Procurement History & Planning Exhibit P-5A

FY2005 President's Budget Submission Commander, U. S. Atlantic Fleet

		В	UDGET PROCURE EXHIBIT F	EMENT HISTORY A P-5A	AND PLANNING	3				DATE:	February 2004
Appropriat	tion Code/CC/BA/BSA/Item Control Number					P-1 Line Iter	n Nomenclatur	е	82		
1810 / BA	2 / Program Line 3303					Communica	tions and Elec	tronics Equipn	nent		
COST	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
	FY03  Replace 80KVA UPS SATCOM Site  Replace 500 KVA UPS Main Comm Center	ICON INC ; Jessup MD ICON INC ; Jessup MD	Competitive Competitive	SPAWAR, Charleston SC SPAWAR, Charleston SC	12-May-03 12-May-03	5/12/2003 5/12/2003	1 2	0.558 0.685	Y	N N	
	TOTAL							1.243			

## Department of the Navy Other Procurement, Navy Budget Procurement History & Planning Exhibit P-5A

FY2005 President's Budget Submission Commander, U. S. Atlantic Fleet

		В	UDGET PROCURI EXHIBIT F	EMENT HISTORY A P-5A	AND PLANN	IING				DATE:	February 2004				
Appropriat	ion Code/CC/BA/BSA/Item Control Number					P-1 Line Item	Nomenclature		82						
1810 / BA 2	2 / Program Line 3303					Communicat	ions and Electr	onics Equipme	ent						
COST	DE FISCAL YEAR AND LOCATION & TYPE BY DATE DELIVERY NOW														
3303	<u>FY04</u>														
	Replace 1-400 KVA UPS, SATCOM Facility Replace 3-200 KVA UPS, SATCOM Site	1	0.680 0.746	Y	N N										
	TOTAL							1.426							

## UNCLASSIFIED CLASSIFICATION

							DATE		February 2004	
APPROPRIATION/BU OP,N - BA-2 COMMUN				P-1 ITEM NOME	_	arated Personn	el Systems (NS		SUBHEAD 52DG	
OT , IV - BAZ GOWINION	PY	TONIO EQUII ME	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TOTAL
QUANTITY										
COST (in millions)			5.296	.36	.289	0	0	0	0	

#### PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:

The Navy Standard Integrated Personnel System (NSIPS) is a special-interest, major Automated Information System (AIS) to collect, process and distribute personnel and pay data within Navy and to various corporate level activities within DoD. NSIPS will achieve the integration of active, reserve, and retired military personnel systems within the Navy, improve the military personnel tracking process, consolidate processes and systems within life cycle areas of military personnel, and the functionality of existing Navy source data collection requirements. NSIPS will operate on shore and afloat servers, client workstations, stand-alone workstations, portable stand-alone workstations, LANs and miscellaneous hardware and will maintain regional data warehouses as well as an all-Navy archival data warehouse.

In order to comply with the NSIPS MS III ORD, the NSIPS program must deploy an electronic service record that will automate the current paper service record maintenance process and allow commands electronic access to service record data on assigned personnel. This electronic service record system and concept will be called NSIPS/ESR. NSIPS/ESR will replace the hard copy officer and enlisted personnel service record used in the field. This will enable electronic filing, processing, storing, retrieving, viewing, and routing of any service record required images and data. This will allow for more efficient documentation and display of information normally placed into the service record; increase efficiencies in the record transfers between activities; reduce lost or misplaced records and their reconstruction; reduce lost or mutilated pages; allow for bulk and group entries (e.g., pay entitlements, training documentation, unit awards, etc.); and reduce manual record maintenance workload. It will also allow for more than one authorized perso to access a record simultaneously, if required (e.g., Legal and Personnel). Additionally, by having a controlled access, there will be increased security of records and the information that they contain. This is anticipated to reduce the workload levels at commands, afloat and ashore, as well as at PSDs.

FY 04 and FY 05 hardware requirements are limited to only extingent hardware upgrades requirements and new unforeseen hardware requirements which may arise due to web enablement. The majority of this funding will be provided to the hardware/software configuration facility to support fielding of NSIPS equipment and software.

DATE February 2004 **COST ANALYSIS** 

APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE
BLI 3306 Navy Standard Inte

OP,N - BA-2	COMMUNICATIONS AND ELECTRONIC EQUIPMENT				BLI 3306	Navy Sta	andard Integra	ited Personn	el System	s (NSIPS)			52DG	
								OST IN THOU	JSANDS (	OF DOLLAR	<u>s</u>			
					T		FY2003			FY2004			FY200	
COST		ID		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
DG010	NSIPS HW Tech Refresh (Shore)	Α				var		177						
DG010	Noiro nw teatremest (Shore)	^				vai		177						
DG020	NSIPS HW Tech Refresh (Ship)	Α				var		2,326	var		102	var		130
20020	Then o' The Toom Toom (omp)	, ,						_,0_0	1					
DG030	NSIPS Software Licenses	Α				var		1,230						
DG777	Installation Costs							1,563			258			159
	TOTAL CONTROL							5,296			360			289

Remarks:

"Various" quantities represent hardware/software configurations that are dependent upon the type of site or platform.

SUBHEAD

#### **CLASSIFICATION**

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT BLI 3306 Navy Standard Integrated Personnel Systems (NSIPS) 52DG DATE CONTRACTOR CONTRACT RFP SPECS DATE COST **ELEMENT OF COST** FΥ LOCATION ISSUE **AWARD** OF FIRST QTY UNIT REVISIONS AND METHOD AVAILABLE CODE LOCATION & TYPE OF PCO DATE DATE DELIVERY COST NOW AVAILABLE DG010 NSIPS HW Tech Refresh (Shore) 03 **VARIOUS** IDIQ **SPAWAR** Multiple Multiple Multiple Var Var Yes N/A NSIPS HW Tech Refresh (Shore) 04 **VARIOUS IDIQ SPAWAR** Multiple Multiple Multiple Var Var Yes N/A DG020 NSIPS HW Tech Refresh (Ship) 03 **VARIOUS** IDIQ **SPAWAR** Multiple Multiple Multiple Var Var Yes N/A NSIPS HW Tech Refresh (Ship) 04 **VARIOUS** IDIQ **SPAWAR** Multiple N/A Multiple Multiple Var Var Yes NSIPS HW Tech Refresh (Ship) 05 **VARIOUS** IDIQ **SPAWAR** Multiple Multiple Multiple Yes N/A Var Var DG030 NSIPS Software Licenses 03 **VARIOUS IDIQ SPAWAR** Multiple Multiple Multiple Var Var Yes N/A

#### D. Remarks:

"Various" quantities represent various hardware/software configurations that are dependent upon the type of site or platform.

MODIFICATION TITLE: NSIPS HW Refresh - Shore February 2004

COST CODE DG010

MODELS OF SYSTEMS AFFECTED: Navy Standard Integrated Personnel (NSIPS)

DESCRIPTION/JUSTIFICATION: Shore sites consist of small, medium and large NSIPS Server and Workstations provided by NMCI to store, pass, and report personnel and pay data for

all Navy Active Duty, Reserve and Retired personnel. Enterprize sites are also included. DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

Prior Yrs FY 02 FY 03 FY 04 FY 05 FY 06 FY 07 FY08 FY09 Total Qty Qty Qty Qty Qty \$ Qty Qty Qty \$ Qty Qty Qty RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment 0.2 0.0 Var 4.5 2.4 1.9 var 0.0 **Equipment Nonrecurring Engineering Change Orders** Data Training Equipment Support Equipment Other Interm Contractor Support Installation of Hardware (Sites) 19 1.6 51 1.7 14 0.0 0.0 0 0.0 84 3.3 PRIOR YR EQUIP 0 0.0 FY 00 EQUIP 16 0.8 16 8.0 FY 01 EQUIP 3 0.8 3 8.0 FY 02 EQUIP 51 51 1.7 1.7 FY 03 EQUIP 14 0.0 14 0.0 FY 04 EQUIP 0.0 0 0.0 FY 05 EQUIP 0.0 0 0.0 FY 06 EQUIP 0 0.0 FY 07 EQUIP 0 0.0 FY TC EQUIP 0 0.0 TOTAL INSTALLATION COST 1.6 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.3 TOTAL PROCUREMENT COST 4.0 3.6 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 7.8 METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Varies N/A

	CONTRACT D	ATES:		FY 2003	:	Multiple		FY 2004	:			FY 20	005:										
	DELIVERY DA	TES:		FY 2003	:	Multiple		FY 2004	:			FY 20	005:										
INSTALLATION SCHEDULE:	PY	1	2	<u>FY03</u>	4		1	2	FY04 3	4	=	1		<u>FY0</u> :	<u>5</u> 3	4	1	2	FY06 3	4	<u>-</u>		
INPUT (Sites)	70	3	5	3	3		0	0	0	0		0		0	0	0	0	0	0	0			
OUTPUT (Sites)	70	3	5	3	3		0	0	0	0		0		0	0	0	0	0	0	0			
INSTALLATION SCHEDULE:		1	2 <u>FY</u>	<u>'07</u> 3	4		1	2 <u>F</u>	<u>708</u> 3	4	_	1		<u>FY0</u> 9	<u>9</u> 3	4	TC					<u>TOTA</u>	<u>\L</u>
INPUT (Sites)		0	0	0	0		0	0	0	0		0		0	0	0						84	
OUTPUT (Sites)		0	0	0	0		0	0	0	0		0		0	0	0						84	

Notes/Comments

Install quantities reflect shore sites.

Installation schedule projected, varies by type of site and equipment.

MODIFICATION TITLE: NSIPS HW Refresh - Ship February 2004

COST CODE

DG020

MODELS OF SYSTEMS AFFECTED: Navy Standard Integrated Personnel (NSIPS)

DESCRIPTION/JUSTIFICATION: Each ship consist of small or medium NSIPS Server and Workstations to store, pass, and report personnel and pay data for ships company.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

FINANCIAL PLAN. (\$ III IIIIIIIOIIS)	Prior Y	r <u>s</u>	FY	02	FY	03	FY	04	FY	05	FY (	06	FY	07	FY08		FY09		I	<u>C</u>	Tot	al	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			Qty	\$	Qty	\$	
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment	var	0.2	var	0.7	var	2.3	var	0.1	var	0.1											Var	3.4	
Other Interm Contractor Support																						0.0	
Installation of Hardware (Sites) PRIOR YR EQUIP FY 00 EQUIP	3	0.3	60	0.9	122	1.6	5	0.3	6	0.2											196 0 0	3.2 0.0 0.0	
FY 01 EQUIP FY 02 EQUIP	3	0.3	60	0.9																	3 60	0.3 0.9	
FY 03 EQUIP FY 04 EQUIP					122	1.6	5	0.3													122 5	1.6 0.3	
FY 05 EQUIP FY 06 EQUIP								0.0	6	0.2											6 0	0.0 0.2	
FY 07 EQUIP										0.2											0	0.0	
FY TC EQUIP TOTAL INSTALLATION COST		0.3		0.9		1.6		0.3		0.2		0.0		0.0		0.0		0.0		0.0	U	0.0 3.2	
TOTAL PROCUREMENT COST		0.5		1.5		3.9		0.4		0.3	ADMINIS	0.0	IVE LEVE	0.0		0.0 Varies		0.0	LICTIO	0.0	DTIME:	6.6	
METHOD OF IMPLEMENTATION:											ADMINIS	SIKAI	IVE LEAL	JIIIVIE.		varies	г	ROD	UCTIO	N LEA	DI IIVIE.		
	CONTR	RACT D	ATES:		FY 2003	3:	Multiple		FY 2004	<b>1</b> :	Multiple		FY 2005	5:	Multiple								
	DELIVE	RY DA	TES:		FY 2003	3:	Multiple		FY 2004	<b>1</b> :	Multiple		FY 2005	5:	Multiple								
INSTALLATION SCHEDULE:	PY		1	2	FY 03 3	4		1	<u>F)</u> 2	<u>/ 04</u> 3	4		1	2	FY 05	4		1	<u>F</u>	<u>/ 06</u> 3	4		
INPUT (SITES)	63	_	20	40	40	22	_	1	2	1	1	•	1	2	3	0		0	0	0	0	•	
OUTPUT (SITES)	63		20	40	40	22		1	2	1	1		1	2	3	0		0	0	0	0		
				-	7.07					/ OR				E. /	00								
INSTALLATION SCHEDULE:			1	2 2	<u>' 07</u> 3	4	=	1	2 2	<u>7 08</u> 3	4	-	1	<u>FY</u> 2	<u>09</u> 3	4	_	TC					TOTAL
INPUT (SITES)			0	0	0	0		0	0	0	0		0	0	0	0							196
OUTPUT (SITES)			0	0	0	0		0	0	0	0		0	0	0	0							196

Notes/Comments

Install quantities reflect ship sites.

Installation schedule projected, varies by type of ship and availablity.

#### **CLASSIFICATION:**

## **UNCLASSIFIED**

		BUE	GET ITEM JUSTIFICA	TION SHEE	T			DATE:			
			P-40						Februa	ry 2004	
APPROPRIATION/BUD	GET ACTIVI	TY				P-1 ITEM NO	MENCLATURE				
OTHER PROCURE	EMENT, NA	VY/BA2							BLI 3311	<b>JEDMICS</b>	
Program Element for Co	ode B Items:					Other Related	Program Elem	ents			
	Prior	ID								То	
	Years	Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Total
QUANTITY	5800										5800
COST (In Millions)	\$47.1		\$11.7	\$6.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$65.2

The Joint Engineering Data Management Information and Control System (JEDMICS) is the Joint DoD system for permanently storing, managing and controlling digital engineering drawings and associated technical data. The JEDMICS System replaced labor intensive, inefficient manual and semi-automated engineering drawing repositories with automated central repositories for all engineering and manufacturing information for DOD Weapon Systems. This information is used by the fleet shore establishment and industry in support of spares acquisition, equipment maintenance, and modernization and preparation of technical publications. The JEDMICS system is deployed at 26 interoperable sites that service 600 locations worldwide. JEDMICS currently manages and controls 77,000,000 engineering images and has 34,000 authorized users responsible for over 70,000 user sessions per month. Over 2.5 million digital images are retrieved each month. The effective utilization of JEDMICS by the contractor and Government communities will require secure network access and adequate security for all data stored within the repository.

Funding is used to comply with Congressional direction as follows: (1) \$5.905 FY03 funds were for the procurement & integration of the same Multi-Level Security Solution implemented in FY2000 and FY2001 and the extension of those products into other Logistics process environments and (2) \$12.195, (\$5.842 FY03 and \$6.353 FY04 funds) continues to acquire a Pacific Fleet Combined Operations Wide Area Network system consisting of a National Security Administration (NSA) certified product for a secured network solution.

FY03 values reflect actual program values.

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 84 PAGE NO. 1

**UNCLASSIFIED** 

DD Form 2454. JUN 86

#### **CLASSIFICATION:**

## **UNCLASSIFIED**

SUDGET ITEM JUSTIFICATION SHEET FOR AGG	REGAT	ED ITEM	S						DATE:	F - I	0004	
P-40a							In difference			Februa	ry 2004	
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NO	MENCLATURE				
OTHER PROCUREMENT, NAVY/ BA2									BLI 3311 J	EDMICS		
Procurement Items	ID Code	Prior Years		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
Diamond NIC Secure Network Interface System	A	1 0010		1 1 2000	1 1 2001	1 1 2000	1 1 2000	1 1 2001	1 1 2000	1 1 2000	Complete	rotai
Quantity		5800										580
Cost		20.471										20.47
HW/SW test site upgrades		0.300										0.30
Certification/Accreditation		7.500										7.50
Open Application Interface (OAI) S/W Pkg		2.452										2.45
System H/W & S/W to run OAI		2.406										2.40
COTS H/W &S/W for a turnkey WEB solution		2.590										2.59
COTS HW & SW for expanded JEDMICS Security												
access and WEB Security Improvements.		3.456										3.45
COTS HW & SW for extension of the JEDMICS												
Security solution into logistics processes.		3.458		5.905								9.36
COTS HW & SW for Combined Operations WAN		4.460		5.842	6.353							16.65
					0.5==							05.10
Total Funding		47.093	0.000	11.747	6.353 P-1 SHOPPII			0.000 CLASSIFICAT	0.000	0.000	0.000	65.19

Note: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

	II SYSTEM COST ANA	ALYSIS				11 System						ŀ	1	DATE:	
	P-5					<b>JEDMICS</b>						ļ	İ	Februa	ary 2004
APPRO	PRIATION/BUDGET ACTIVITY					ID Code	P-1 ITEM N	OMENCLATI	JRE/SUBHEA	D					
Other F	Procurement, Navy, BA2 JEDMICS														
	•						BLI 3311	<b>JEDMICS</b>	/42JD						
			TOTAL COST	T IN THOUS	SANDS OF D	OLLARS									
	EL EL EL EL EL EL EL EL EL EL EL EL EL E			1			1	E) / 0000		1	E) / 000 /				
COST	ELEMENT OF COST	ID Code	Prior Years					FY 2003			FY 2004	ļ	ĺ	FY 2005	
OOBL		Oouc	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
JE100	DiamondNIC Secure Network Interface System	Α	20,471											+	
JE100	Test Center HW/SW upgrade		300												
JE100	Certification/Accreditation		7,500												
JE100	Open Application Interface (OAI) S/W Pkg		2,452												
JE100	System H/W & S/W to run OAI		2,406												
JE100	COTS H/W &S/W for a turnkey WEB solution		2,590												
JE100	Combined Operations Wide Area Network (COWAN) COTS HW / SW Solution		4,460					5,842	5,842		6,353	6,353			
JE100	Turnkey WEB Secure Access Upgrades		3,456											,	
JE100	NAVAIR Logistics IT Prototype		3,458					5,905	5,905						
			47,093		<u> </u>	(	o l		11,747			6,353			(
DD FORI	M 2446, JUN 86	P-1 SH	OPPING LIST		-		-	-			•	CLASSIFICA	TION:		

ITEM NO. 84 PAGE NO. 3

**UNCLASSIFIED** 

#### CLASSIFICATION:

# **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AN	ND PLANNII	NG EXHIE	SIT (P-5A)			IT System		A. DATE		
						JEDMICS			February 20	004
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLAT	TURE				
Other Procurement, Navy									42	2JD
BA2, JEDMICS					BLI 3311 JEDMI	CS				
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
JD100/FY04 - Combined Operations Wide Area Network COTS HW / SW Solution			NAWC-AD, Pax River, MD	3/04	Sole S. FFP/CPFF	CRYPTEK Secure Communications,LLC Sterling, VA	5/04	9/04	Yes	N/A
		300	NAWC-AD, Pax River, MD	N/A	wx	NAWC-AD, Pax River, MD	2/04	6/04	Yes	N/A
		236	SPAWARSYSCEN, San Diego, CA	N/A	wx	SPAWARSYSCEN, San Diego, CA	2/04	6/04	Yes	N/A

## D. REMARKS:

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST ITEM NO. 84 Classification:

#### CLASSIFICATION

BUDGET	ITEM JUSTIFI	CATION SH	HEET			DATE		Februar	ry 2004
APPROPRIATION/BUDGET ACTIVIT OP,N - BA2 COMMUNICATIONS & E		MENT		P-1 ITEM NOM 336800 NAVAL		IUNICATIONS	T	SUBHEAD 52D6	
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL
QUANTITY									
COST (in millions)	\$97.4	\$76.3	\$57.1	\$58.1	\$47.7	\$48.8	\$49.8	Continuing	Continuing

**PROGRAM COVERAGE FY02-09:** The Naval Shore Communications program procures and installs the Defense Message System and Base Level Information Infrastructure requirement at shore stations.

- (1) Defense Message System(D6001)) The Defense Message System (DMS) replaces the Automated Digital Network (AUTODIN) message delivery architecture with a single organizational messaging system throughout the DoD, with seamless strategic (ashore) and tactical (afloat) interoperability. DMS is an integrated suite of COTS-based applications for electronic delivery of organizational messages, which is designed to run on the Defense Information System Network (DISN). The DoN DMS program provides for the planning, procuremen integration, installation and upgrade of DMS components to provide end-to-end interoperable messaging capabilities of all Navy and USCG shore activities, as well as procurement of some DMS components for USMC activities. Implementation of the end-to-end messaging capability comprises four functional categories. Specific configurations implemented at individual sites within each functional category vary to such a degree that aggregate quantities (and unit costs) are not applicable and would be misleading
- (a) Messaging Control Centers (aka DMS messaging infrastructure sites): provides for site survey and design engineering, hardware procurement, hardware/software integration, installation and checkout, certification and technical support to implement Navy and Coast Guard DMS messaging infrastructure control centers, which provide messaging, directory, and security services and network interface to the Joint DMS backbone for Navy organizational messaging user commands. Implements 4 Area Control Centers (ACCs), 9 Local Control Centers (LCCs), and 8 Remote Server Sites (RSSs) at Naval Computer and Telecommunications Area Master Stations (NCTAMS) and Naval Computer and Telecommunications Stations (NCTS) worldwide. Separate DMS enclaves are provided at each ACC/LCC/RSS for Sensitive But Unclassified (SBU) and Secret classifications of organizational messaging; separate TS/Collatera enclaves are provided at the 4 ACCs. Also provides for implementation of Sensitive Compartmented Information (SCI) ACCs/LCCs at 11 Naval Intelligence Community sites worldwide. Includes integration and phased implementation of Tactical Messaging Gateway (TMG) at 3 NCTAMS and 3 SCI messaging centers, which will constitute the DMS messaging tactical gateway to affloat users. Site configurations vary, depending on volume of organizational user commands serviced by each messaging control center.
- (b) Organizational Messaging Capabilities at User Commands: provides for hardware and software procurement, hardware/software integration, installation and checkout, and initial user training necessary to provide organizational messaging Enabling Capabilities (ECs) to approximately 3,000 designated Navy shore commands. Separate DMS ECs are provided for Sensitive But Unclassified (SBU), Secret, and Top Secret/Collateral GENSER classifications (depending on messaging requirements of individual command), as well as Sensitive Compartmented Information (SCI) messaging capabilities for Navy user commands in the Intelligence Community. Individual EC configurations vary, depending upon each command's available means of network connectivity (i.e., dial-up or NIPRNET/SIPRNET connection, direct or through local network); EC configurations range from a workstation with DMS user agent (client) software to a DMS groupware server upgrade for existing email server. Also provides for implementation of DMS groupware servers and approximately 10,000 desktop user agents at headquarters of designated Combatant Unified Commanders (JFCOM, USPACOM) and their sub-unified commands, as well as CNO/SECNAV headquarters and Navy Fleet Commander in Chief (FLTCINCs). FY04-09 provides for hardware and software procurement, hardware/software integration, installation and checkout for shore tactical sites and Tac Mobile units including Joint Mobile Ashore Support Terminal (JMAST), Mobile Operational Command Center (MOCC) and Mobile Inshore Undersea Warfare (MIUW).
- (c) Upgrades: provides for hardware technical refresh of DMS messaging infrastructure components at Navy ACCs, LCCs, and RSSs necessary to integrate successive releases of DMS software upgrades and major versions. Also provides for implementation of augmented DMS components necessary to accommodate fielding of afloat tactical users.
- (d) Technical Refresh of Transitional Messaging Components: provides for technical refresh/upgrade of existing transitional messaging systems necessary to maintain interoperability with legacy messaging formats and interface with tactical users. Transitional messaging systems will remain operational until the transition from the AUTODIN messaging system to DMS is completed for all Navy activities, ashore and afloat.

#### JUSTIFICATION OF BUDGET YEAR REQUIREMENTS:

DMS is a DoD-mandated, Joint ACAT IAM program managed by the Defense Information Systems Agency (DISA) and executed by the individual Services/Agencies. Assistant Secretary of Defense (C3I) memorandum "Electronic Mail Policy-Implementation Guidance" (9 Mar 1995) established DMS as the "one seamless, end-to-end global electronic messaging service within the Department of Defense. All electronic messaging (AUTODIN and legacy electronic mail) within the DoD must migrate to DMS-compliant messaging as rapidly as possible."

Assistant Secretary of Defense (C3I) memorandum "Revised Defense Message System Transition Plan" (28 Dec 1999) provides updated milestones for the phased transition from AUTODIN to DMS messaging.

#### CL ASSIFICATION

CLASSIFICATION			
BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	336800 NAVAL SHORE COMMU	UNICATIONS	52D6
2) Base Level Information Infrastructure (D6005): The Base Level Information Infrastructure (BLII) program modernizes exists at major OCONUS fleet concentration bases and stations. Primary functional areas of BLII are:	sting Information Technology (IT) p	olants and installs up to date IT ca	pability where none currently
(a) BLII OCONUS IT Infrastructure (formerly BLII WAN, RNOC, MAN, BAN, LAN): Provides a fully integrated, interopera at prioritized OCONUS bases, stations and homeports. Installs/modernizes inside and outside cable plants including LAN/BAN capabilities at each site. Improves capabilities and reduces total ownership costs by consolidating network services at efficient Bahrain theaters.	I/WAN electronics, and provides ir	nformation assurance, asset invent	tory, and network management
(b) Telephony Replacement/Modernization (formerly BLII Voice): Replaces obsolete telephone switches and upgrades a service OCONUS and CONUS forces. Modernizes outdated and overloaded telephone switch cable plants.	irmware and software, in accordant	nce with CJCSI 6215.01B, at telep	hone switch locations that
(c) Force Protection Projects OCONUS: (c) CINCPACFLT (CPF), CINUSNAVEUR (CNE) and COMUSNAVCENT (CUSN enables forward deployed ships to maintain situational awareness and receive operational and intelligence traffic while perform emphasized their requirement to expand SIPRnet capability due to anti-terrorist military operations. Installs/modernizes OCON support buildings.	ning maintenance or training on the	eir RF systems while pier-side. CF	PF, CNE and CUSNC have
(d) BLII Equipment - MILCON Projects: Procures shore Defense Red Switch Network (DRSN), Defense Switch Network (DRSN), and workstations in support of the C4I upgrades associated with Military Construction (MILCON) projects for USPACOM and C		ches, hubs, routers, basic network	/information distribution servers
(3) Equipment Installation (D6776): Installs the above procured equipment at shore stations worldwide. Installations include BLII efforts, a "turnkey" procurement and install integrated contract is used to achieve cost effectiveness and efficiency. Only g			ngs. However in a majority of

Exhibit P-40, Budget Item Justification Unclassified Classification

DATE **COST ANALYSIS** February 2004

APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD

OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT 336800 NAVAL SHORE COMMUNICATIONS 52D6

	INIONICATIONS AND ELECTRONIC EQUIPMENT		, , , , , , , , , , , , , , , , , , ,		SHORE COMMUNICA		COST IN	THOUSANDS OF DOLL	ARS	3200	
				FY 20	03	I		Y 2004		FY	2005
COST		ID		UNIT	TOTAL	-	UNIT	TOTAL		UNIT	TOTAL
CODE	ELEMENT OF COST	CODE	QTY	COST	COST	QTY	COST	COST	QTY	COST	COST
D6001	Defense Messaging Systems (DMS) <sup>1</sup>	A	Var		24,805	Var		4,575	Var		4,157
2000.	DMS	'			,,,,,	•		.,			.,
	Messaging Control Centers		Var		7,887			1,121	Var		l o
	Organizational Messaging Capabilities at User Commands		Var		6,587	Var		1,121	Var		0
	Upgrades		Var		8,390	Var		533	Var		1,328
	Transitional Messaging Components Technical Refresh		Var		1,941	Var		1,800	Var		2,829
D6005	Base Level Information Infrastructure (BLII <sup>2,3</sup>	A			51,621			64,097			46,830
	BLII OCONUS IT Infrastructure					Var		24,888	Var		20,640
	BLII Wide Area Network (WAN)		0	0.00	0						
	BLII Regional Network Operating Center (RNOC)		0	0.00	0						
	BLII Metropolitan Area Network (MAN)		0	0.00	0						
	BLII Base Area Network (BAN)		16	1,768.38	28,294						
	BLII Local Area Network (LAN)		0	0.00	0						
	Telephony Replacement/Modernization⁴		5	2,073.20	10,366	Var		15,997	Var		7,15
	Force Protection Projects OCONUS					Var		23,212	Var		19,03
	BLII Equipment - MILCON projects				12,961			0			(
D6555	Production Support				3,789			3,122			1,82
	Defense Messaging Systems				2,323			689			23
	Base Level Information Infrastructure (BLII)				1,466			2,433			1,59
D6776	Non-FMP Installation	A			17,223			4,543			4,25
	Defense Messaging Systems (DMS)				6,623			973			68
	Base Level Information Infrastructure (BLII) BLII				10,600			3,570			3,570
	BLII Instal <sup>2,5</sup>							3,570			3,57
	BLII Wide Area Network (WAN)				2,200						-,-:
	BLII Regional Network Operating Center (RNOC)				200						
	BLII Metropolitan Area Network (MAN)				0						
	BLII Base Area Network (BAN)				1,200						
	BLII Local Area Network (LAN)				0						
	BLII Voice				0						
	BLII Equipment - MILCON projects				7,000			0			C
	Total SPAWAR Control				97,438			76,337			57,066
marks:					,			,,,,			,

<sup>1)</sup> DMS FY03-09 reflect functional categories to depict types of capabilities being implemented.

**DD FORM 2446, JUN 86** Exhibit P-5, Budget Item Justification Unclassified

<sup>2)</sup> BLII FY03 includes separate lines for WAN, RNOC, MAN, BAN, LAN equipment and installations. In FY04-09 the equipment and installation lines are combined into the single line BLII OCONUS IT infrastructure. Specific configurations implemented at individual sites within each infrastructure category vary to such a degree that aggregate quantities (and unit costs) previously depicted are not applicable and would be misleading. The preferred execution vehicle for BLII is the ViViD contract—an omnibus contract to procure and install BLII infrastructure.

<sup>3)</sup> BLII FY03: Unit cost fluctuations are due to size and complexity of Navy facilities and activities being upgraded. Example: More buildings on a Navy facility will require a more extensive and complex Base Area Network (BAN) to be installed and increased capability at the supporting NOC. Thus, unit costs depicted above are based on an average cost of each planned component installation.

<sup>4)</sup> BLII Voice renamed Telephony Replacement/Modernization in FY04 - 09.

<sup>5)</sup> FY04-09: BLII Install line is non turnkey BLII OCONUS IT Infrastructure and Force Protection Projects OCONUS Installations.

# UNCLASSIFIED CLASSIFICATION

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 SUBHEAD B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 336800 NAVAL SHORE COMMUNICATIONS 52D6 CONTRACTOR CONTRACT RFP DATE **SPECS** DATE COST **ELEMENT OF COST** FΥ AND METHOD LOCATION ISSUE **AWARD** OF FIRST QTY UNIT AVAILABLE REVISIONS CODE LOCATION OF PCO DATE DATE COST & TYPE Delivery NOW **AVAILABLE** D6001 Defense Messaging Systems 03 Various Various **SPAWAR** N/A Dec-02 Feb-03 Var Yes N/A 04 Various Various **SPAWAR** N/A Dec-03 Feb-04 Var Yes N/A 05 Various Various **SPAWAR** N/A Dec-04 Feb-05 Var Yes N/A D6005 Base Level Information Infrastructure (BLII)<sup>1</sup> Various 03 Various **SPAWAR** N/A Dec-02 Feb-03 Var Yes N/A 04 Various Various **SPAWAR** N/A Dec-03 Feb-04 Var Yes N/A 05 **SPAWAR** Various Various N/A Dec-04 Feb-05 Var Yes N/A

D. REMARKS

Exhibit P-5a, Procurement History and Planning Unclassified Classification

<sup>1)</sup> The preferred execution vehicle for BLII is the ViViD contract--an omnibus contract to procure and install BLII infrastructure.

MODIFICATION TITLE: Defense Messaging Systems (ASHORE)<sup>1,2</sup>

COST CODE D6001
MODELS OF SYSTEMS AFFECTED: Various

State of the art technologies for messaging functions which will replace AUTODIN. Costs vary by site size, requirements, and configuration.

FY 03

Funding provides for procurement and installation of Fleet Tactical Gateways at DMS messaging control centers, SCI messaging control centers, DMS organizational

FY 05

FY 06

FY 07

FY 08

FY 09

TC

messaging capabilities for SCI user commands, messaging control center hardware upgrades to support software releases, shore tactical sites and Tac Mobile units, and technical refresh of transitional messaging components.

FY 04

and tooming to danotional moosaging of

Prior Yrs

FY 02

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

DESCRIPTION/JUSTIFICATION:

	FIIUI IIS		<u> </u>	1 02	<u> </u>	1 03		1 04		1 03	<u> </u>	00	ELV	31	<u> </u>	00		09	10	11	Jiai
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$
RDT&E																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kits Nonrecurring																					
Equipment	4	120.9		16.0		24.8		4.6		4.2		2.7		2.4		2.4		2.5	con't		180.3
Messaging Control Centers				5.9		7.9		1.1		0.0		0.0		0.0		0.0		0.0	con't		14.9
User Commands Messaging Capabilities				1.7		6.6		1.1		0.0		0.0		0.0		0.0		0.0	con't		9.4
Upgrades				5.8		8.4		0.5		1.3		2.7		1.4		1.6		2.5	con't		24.3
Transitional Messaging Components				2.6		1.9		1.8		2.8		0.0		1.0		0.7		0.0	con't		10.9
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Production Support		6.1		2.2		2.3		0.7		0.2		0.2		0.2		0.1		0.2	con't		12.2
Other - (DSA)																					
Interm Contractor Support	0.0	44.5	.,	0.4		0.0		4.0	.,,			0.5						0.4			0
Installation of Hardware	0.0	41.5	Var	6.4	Var	6.6	Var	1.0	Var	0.7	Var	0.5	Var	0.4	Var	0.4	Var	0.4	con't		57.8
PRIOR YR EQUIP FY 02 EQUIP	0.0	41.5	Var	6.4																	41.5
FY 02 EQUIP FY 03 EQUIP			var	6.4	Var	6.6															6.4 6.6
FY 03 EQUIP FY 04 EQUIP					var	0.0	Var	1.0													1.0
FY 05 EQUIP							vai	1.0	Var	0.7											0.7
FY 05 EQUIP									Vai	0.7	Var	0.5									0.7
FY 07 EQUIP											Vai	0.5	Var	0.4							0.5
FY 07 EQUIP													Vai	0.4	Var	0.4					0.4
FY 09 EQUIP															Vai	0.4	Var	0.4			0.4
FY TC EQUIP																	Vai	0.4	con't		
TOTAL INSTALLATION COST		41.5		6.4		6.6		1.0		0.7		0.5		0.4		0.4		0.4	con't		57.8
TOTAL PROCUREMENT COST		168.5		24.5		33.8	1	6.2	1	5.1		3.3		2.9		2.9		3.0	00.11	1	250.3
METHOD OF IMPLEMENTATION:	<u> </u>	100.0	SPAWA		nter Install		1	0.2	1		ATIVE LEAD			2.0	2 Mos	2.0	PRODUCT		TIME:	2 Mos	200.0
				,																	
	CONTRAC	T DATES:	FY 2003	3:	Dec-02			FY 2004:		Dec-03			FY 2005:		Dec-04						
	DELIVERY	DATES:	FY 2003	3:	Feb-03		1	FY 2004:		Feb-04			FY 2005:		Feb-05						
					Y 04					FY 05				FY 06					FY 07		
INSTALLATION SCHEDULE:	PY		1	2	3	4		1	2	3	4	_	1	2	3	4		1	2 3	4	_
INPUT	Var			Var					Var					Var					Var		
INFOI	v ai			vai					vai					vai					vai		
OUTPUT	Var					Var					Var					Var				Var	
					FY 08					FY 09											
INSTALLATION SCHEDULE:			1	2	3	4		1	2	3	4	_	TC	_		TOTAL					
INPUT				Var			_		Var		-					con't					
OUTPUT						Var					Var					con't					
0011 01						vai					vai					COITE					

Notes/Comments

Exhibit P-3a, Individual Modification Program Unclassified Classification

February 2004

Total

<sup>1/</sup> Total quantity meets inventory objective. Program continues indefinitely.

<sup>2/</sup> PY quantities are regions to match the budgets submitted in those years. Beginning in FY02 quantities reflect equipment functional categories to better depict capabilities implemented.

MODIFICATION TITLE: Base Level Information Infrastructure (BLII) 1

COST CODE D6005

MODELS OF SYSTEMS AFFECTED: Various

DESCRIPTION/JUSTIFICATION: BLII modernizes existing IT plans and installs up to date IT capability where none exists at major OCONUS fleet concentration bases and stations. Major functional areas of BLII are BLII OCONUS IT Infrastructure, Telephony Replacement/Modernization, and Force Protection Projects OCONUS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILE FINANCIAL PLAN: (\$ in millions)	STONES:																				
	Prior Yrs			′ 02		Y 03		FY 04		Y 05	FY		FY (	07		′ 08		<u>/ 09</u>	<u>TC</u>		otal
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty \$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring BLII Equipment <sup>1,2</sup>	Var	242.3		21.4		38.7		64.1		46.8		52.8		43.2		44.2		45.1	con't	:	598.6
BLII OCONUS IT Infrastructure							Var	24.9	Var	20.6	Var	25.7	Var	25.2	Var	25.5	Var	25.6	con't		147.5
BLII Wide Area Network (WAN) BLII Regional Network Operating Center (RNOC) BLII Metropolitan Area Network (MAN) BLII Base Area Network (BAN) BLII Local Area Network (LAN)	8 3 20	9.7 30.9 5.2 45.0 29.2	1 3 0 1 85	0.6 1.3 0.0 1.0 3.5	0.0 0.0 0.0 16.0 0.0	0 0 0 28.3 0		20	Va	20.0	, u.	20	, va	20.2		20.0	14.	25.5	33.1.		
Telephony Replacement/Modernization (Voice)	2	12.0	5	15.0	5.0	10.4	Var	16.0	Var	7.2	Var	18.9	Var	9.7	Var	10.5	Var	11.3	con't		110.8
Force Protection Projects OCONUS							Var	23.2	Var	19.0	Var	8.2	Var	8.3	Var	8.3	Var	8.3	con't		75.3
Equipment Nonrecurring Engineering Change Orders Data Training Equipment																					
Production Support Other - (DSA) Interm Contractor Support		6.2		1.6		1.5		2.4		1.6		1.8		1.4		1.5		1.5	con't		19.5
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP	Var Var	72.6 72.6	95 95	0.4	21.0	3.6	Var Var	3.6	Var	3.6	Var	0.2	Var	0.2	Var	0.2	Var	0.2	con't		84.5 72.6 0.4 3.6 3.6 3.6
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TC EQUIP											Var	0.2	Var	0.2	Var	0.2	Var	0.2	con't		0.2 0.2 0.2 0.2
TOTAL INSTALLATION COST TOTAL PROCUREMENT COST		72. 321.		0.4 23.3	21	3.6 43.7		3.6 70.1		3.6 52.0		0.2 54.8		0.2 44.8		0.2 45.9		0.2 46.8	con't		84.5 702.6
METHOD OF IMPLEMENTATION:		321.			Contract	45.7	1	70.1		ADMINISTR	ATIVE LEAD			44.0	2 Mos	45.5	PRODUC	TION LEAD	TIME:	2 Mos	702.0
	CONTRAC	T DATES:	FY 200	3:	Dec-02		ı	FY 2004:		Dec-03			FY 2005:		Dec-04						
	DELIVERY	DATES:	FY 200	3:	Feb-03		1	FY 2004:		Feb-04			FY 2005:		Feb-05						
INSTALLATION SCHEDULE:	PY		1	2	FY 04 3	4		1	2	<u>FY 05</u> 3	4		1	FY 06 2	3	4		1	<u>FY 07</u> 2 3	4	
INPUT	Var			Var			=		Var					Var					Var		
OUTPUT	Var					Var					Var					Var				Var	
INSTALLATION SCHEDULE:			1	2	FY 08 3	4		1	2 <u>FY</u>	<u>′ 09</u> 3	4	_	TC	_		TOTAL					

Notes/Comments

INPUT

OUTPUT

Var

Var

Exhibit P-3a, Individual Modification Program Unclassified Classification

con't

con't

February 2004

Var

Var

<sup>1)</sup> PY: BLII Equipment broken out into WAN/RNOC/MAN/BAN/LAN only in FY01.

<sup>2)</sup> FY04-09: WAN/RNOC/MAN/BAN/LAN consolidated into BLII OCONUS IT Infrastructure to better describe products and capabilities delivered to the customer.

COST CODE

MODIFICATION TITLE:

Base Level Information Infrastructure (BLII) Equipment - MILCON projects.

D6005

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

All ship (pierside) and shore voice, video and data requirements.

Procures shore Defense Red Switch Network (DRSN), Defense Switch Network (DSN), LAN, BAN, cable plant, switches, hubs,

routers, basic network/information distribution servers and workstations in support of the C4I upgrades associated with

Military Construction (MILCON) projects for USPACOM and CUSNC.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	Prior \	<u>Yrs</u>	FY 0	)2	FY 03	FY 04	E)	<u> 7 05</u>	FY	06	FY (	)7	FY 08	8	FY (	<u> </u>	TC	<u>:</u>	Tota	1
	Qty	\$	Qty	\$	Qty \$	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT:																				
Gulf Region		0.0		0.9	0.0															0.9
Europe Region																				
Far East Region		4.5		11.5	11.4															27.4
Other Requirements				2.5	1.6															4.1
Production Support																				
Other (DSA)																				
Installation of Hardware		0.3		6.9	7.0															14.2
PRIOR YR EQUIP		0.3																		0.3
FY 02 EQUIP				6.9																6.9
FY 03 EQUIP					7.0															7.0
FY 04 EQUIP																				0.0
FY 05 EQUIP																				
FY 06 EQUIP																				
FY 07 EQUIP																				
FY 08 EQUIP																				
FY 09 EQUIP																				
FY TC EQUIP																				
TOTAL INSTALLATION COST	0	0.3	0	6.9	0 7.0	0 0.0			0	0.0	0	0.0	0	0.0	0	0.0			0	14.2
TOTAL PROCUREMENT COST	0	4.8	0	21.7	0 20.0	0 0.0	0			0.0	0	0.0	0	0.0	0	0.0			0	46.5
METHOD OF IMPLEMENTATION:								ADMINIS	STRATIVE	E LEAD	-TIME:		N/A		PRODUC	TION L	EAD-TIM	E:	N/A	
	CONTRACT	DATEO	E) / 0000		N//A	E)/ 00/					E) ( 000E									
	CONTRACT	DATES:	FY 2003:		N/A	FY 200	)4:	N/A			FY 2005:		N/A							
	DELIVERY D	ATE0:	EV 0000:		1/	EV 000	v4.	1/			EV 000E		N/A							
	DELIVERY	ATES:	FY 2003:		Var	FY 200	14:	Var			FY 2005:		IN/A							
				FV	03			FY 04			FY 05						FY	ne		
INSTALLATION SCHEDULE:	PY		1	2	3 4	1	2	3	4		1	2	3	4		1	2	3	4	
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OUTPUT	Var																			
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				FY 07	<u>7</u>		E	<u> </u>				FY	09							
INSTALLATION SCHEDULE:			1	2	3 4	1	2	3	4		1	2	3	4	_	TC			<u>TOTAL</u>	
INDUT																				

INPUT

OUTPUT

Notes/Comments

1) Gulf Region: C4I upgrades to support MILCON P903/904 (NAVCENT Hq Bld). Estimated Completion Date: Third Quarter, FY04

1) Guir Region: C41 upgrades to support MILCON P903/904 (NAVCENT High Bid). Estimated Completion Date: Third Quarter, FY04

2) Far East Region: C4I upgrades and equipment transition in support of MILCON (USPACOM Command Center). Estimated Completion Date: First Quarter, FY05

3) Each Milcon project represents 1 command center. Installation includes various equipment.

4) Other Requirements is a Site R requirement.

Exhibit P-3a, Individual Modification Program

Unclassified Classification

February 2004

## UNCLASSIFIED CLASSIFICATION

	CLASSIFICATION																															DAT	=						
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	PRIATION/BUDGET ACTIVITY BA2 COMMUNICATIONS & ELECTRONIC EQU	IIPMENT														ITEM 800 N						NICA	TION	ıs										SUB 52D6		AD NO	).		
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		1	PRODUCTION RATE	1		PROCUREMEN	IT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
							_		,	

Exhibit P-21 Production Schedule

Unclassified

Classification

BUDGET ITEM JUSTIFICATION	SHEET						DATE			February 2004
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRO	NIC EQUIPMENT				P-1 ITEM NOMEN 341500 - ISSP (Int		Security Program)			SUBHEAD 52DA
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL	
QUANTITY										
COST (in millions)	\$83.9	\$81.2	\$88.4	\$112.6	\$122.5	\$118.2	\$118.5	Continuing	Continuing	

#### P.E. #0303140N

PROGRAM COVERAGE: The Information Systems Security Program (ISSP) provides funds for procurement of secure communications equipment for Navy Ships, shore sites, aircraft, Marine Corps, and U.S. Coast Guard to PROTECTinformation systems from unauthorized access or modification of information, and against the denial of service to authorized users or provision of service to unauthorized users. Information Assurance is a layered protection strategy, using COTS and GOTS hardware and software products that collectively provides an effective Network Security Infrastructure (multiple level security mechanisms and ability to detect and react to intrusions). Information Assurance is critical in protecting our ability to wage Network Centric Warfare. The following ISSP specific efforts will be funded under this program:

SECURE VOICE: The Secure Voice program procures equipment to secure voice communications. Equipment to be procured in FY 04 and FY 05 include various configurations of Secure Terminal Equipment (STE), Secure Voice for the 21st Century Interworking Functions (SV-21 IWF), Secure Voice for the 21st Century Crypto (SV-21 Crypto), and associated ancillary equipment, production and installation support efforts. The STE is a ship and shore desktop terminal for classified voice, data, facsimile, and video conferencing. It will replace the existing STU-III units via a phased approach. Various configurations of STE equipment to be procured include: Office, Data, Tactical, Narrowband, Condor (wireless), C2 (TACTERM), OMNI and Omega. Secure Voice for the 21st Century (SV-21) provides a direct dial gateway, rack mountable, and multi-channel gateway that transfers clear or encrypted digital voice/data to multiplexer radio frequency equipment for SATCOM transmission Associated ancillary items to be procured include: handsets, power supplies, PUP sleeves and FNDBT upgrade kits.

SECURE DATA: The Secure Data program procures equipment to secure record and data communications. Equipment to be procured in FY 04 and FY 05 include Network Firewall Security Suites (NFSS) and Cryptographic (CRYPTO)/Communication Security (COMSEC) Equipment, and associated ancillary, production and installation support efforts. The NFSS program procures equipment to secure Navy network information systems. Procurements within the NFSS equipment line include: Standard Mail Guards (SMG), which allows two way flow between SECRET high Local Area Networks (LANs) and Unclassified LANs, FIREWALL components, which provides protection for networks from unauthorized users, Virtual Private Networks (VPNs), which provides encrypted "Point-to-Point" virtual communication networks, IDS (Intrusion Detection Systems), Coalition Data Servers (CODs), Administrator Tool Kits, Network Security tools, Network Intrusion filters, and token access controllers. Procurements within the CRYPTO/COMSEC equipment line include: KG family of cryptos, Fastlanes (KG-75), Taclanes (KG-175), Sonets (KG-189), KIV-6, KIV-7s, KIV-19s, Programmable Embedded Infosec Product (PEIP), and Hayfield Chips.

KEY MANAGEMENT INFRASTRUCTURE (KMI): The Key Management program is a COMSEC key distribution and hardware management system consisting of interoperable Joint Service and Civil Agency key management systems. NSA established the Electronic Key Management System (EKMS) program to meet multiple objectives which includes supplying electronic key in a secure and operationally responsive manner and providing COMSEC managers with an automated system capable of ordering, generation, distribution, storage, security, accounting, and access control. Equipment to be procured in FY 04 and FY 05 include Local Management Devices (LMDs), Local COMSEC Management Systems (LCMS). The 2 Central Processing Unit (CPU) replacement upgrades, EKMS Upgrades (hardware and software), Data Transfer Devices (DTDs), Public Key Infrastructure (PKI) security products, and associated ancillary, production and installation support efforts.

The LMD is a COTS computer that runs LCMS software which controls the Key Processor Equipment (KPE) and provides the COMSEC manager with improved security and enhanced management capabilities.

The Data Transfer Device (DTD), Tier 3, stores, manages, transfers and loads key and COMSEC data through automatic loading of End Crypto Units (ECUs). Specifically, the DTD-2000 (KOV-21) provides the next generation DTD which is based on a PCMCIA card (crypto engine) and COTS notebook/palmtop computer.

Public Key Infrastructure (PKI) provides digital certificate management to authenticate the identity of users on networks as well as to encrypt electronic information flowing over those networks. Procurements include: Component Authority Devices (CAD), Token readers, Tokens for Classified users, Class 4 tokens, Local Registration Authority (LRA) workstations. The Security Token card provides writer to reader security for Local Area Networks (LANs).

BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	341500 - ISSP (Information Syste	ems Security Program)	52DA
<b>INSTALLING AGENT:</b> The ISSP equipment will be installed by the In-Service Engineering Activity (ISEA).			

# COST ANALYSIS APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT P-1 ITEM NOMENCLATURE 341500 - ISSP (Information Systems Security Program) 52DA

DE   ELEMENT OF COST   DID   TOTAL   COST   QTY   COST   COST   QTY   COST   COST   QTY   COST   COST   QTY   COST   COST   QTY   QTY
CODE   CODE   CODE   COST
A013 STE
A042   SV-21 (IWF)   B   B   B   B   B   B   B   B   B
A043   SV-21 (CRYPTO)   B
SECURE VOICE:
OTO   CND   A   VAR   10,362   VAR   10,239   VAR   9,190
OFFI   COMSEC   COM
COMSEC   SECURE DATA:
SECURE DATA:
A   1,435   2.00   2,870   1,547   2.03   3,136   948   2.05   1,948   0   0   0   0   0   0   0   0   0
CYZ-10 UPGRADES
A003 LMD REPLACEMENT A 50 3.00 150 101 3.05 308 140 3.08 431   A004 EKMS UPGRADES A VAR 1,434 VAR 856 VAR 398   A018 PKI SECURITY PRODUCTS A VAR 5,999 VAR 4,735 VAR 3,799   A019 DMS SECURITY PRODUCTS A VAR 920 VAR 0 VAR 0
004       EKMS UPGRADES       A       VAR       1,434       VAR       856       VAR       398         018       PKI SECURITY PRODUCTS       A       VAR       5,999       VAR       4,735       VAR       3,799         019       DMS SECURITY PRODUCTS       A       VAR       920       VAR       0       VAR       0
018         PKI SECURITY PRODUCTS         A         VAR         5,999         VAR         4,735         VAR         3,799           019         DMS SECURITY PRODUCTS         A         VAR         920         VAR         0         VAR         0
119 DMS SECURITY PRODUCTS A VAR
KEY MGMT INFRASTRUCTURE (KMI):         11,373     9,035     6,576
555         PRODUCTION SUPPORT         N/A         7,993         3,708         4,227
TOTAL PROCUREMENT: 76,553 76,200 83,684
777 INSTALLATION NON FMP N/A 4,101 1,134 873
77 INSTALLATION FMP   N/A     2,763   3,401   3,582
77 DSA N/A 524 478 279
INSTALLATION: 7,388 5,013 4,734
TOTAL PROCUREMENT & INSTALLATION: 83,941 81,213 88,418
TOTAL PROCUREMENT & INSTALLATION: 83,941 81,213 88,418

#### Remarks:

DA009 - FY02 unit cost includes non-recurring costs in support of the DTD procurements.

DA009 - Product name change from DTD/KOV-21 to Secure DTD 2000 System (SDS) beginning in FY03.

DA013 - STE Unit cost is based on an average of 6 different configurations and can vary from year to year. Reference L3 Comms NSA Contract 96-D-0025 (POOOO7).

DA070 - Network Systems Security (NSS) name change to Computer Network Defense (CND) beginning in FY03.

DA071 - New cost code created to distinguish COMSEC from CND beginning in FY04.

#### A. DATE PROCUREMENT HISTORY AND PLANNING February 2004 B. APPROPRIATION/BUDGET ACTIVITY C. P-1 ITEM NOMENCLATURE SUBHEAD 52DA OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT 341500 - ISSP (Information Systems Security Program) CONTRACTOR CONTRACT DATE SPECS DATE RFP COST **ELEMENT OF COST METHOD** LOCATION ISSUE AWARD OF FIRST UNIT AVAILABLE REVISIONS FY AND QTY CODE LOCATION & TYPE OF PCO DATE Delivery COST NOW **AVAILABLE** DATE DA013 STE 02 L3 Comms Corp, NJ SS/FFP DIR NSA Mar-02 Sep-03 3,007 3.64 YES N/A DA013 STE L3 Comms Corp, NJ 03 SS/FFP DIR NSA Jul-04 9.793 3.51 YES N/A Jan-03 DA013 STE DIR NSA 10.655 YES 04 L3 Comms Corp, NJ SS/FFP Jan-04 Jul-05 3.18 N/A DA013 STE 05 L3 Comms Corp, NJ SS/FFP DIR NSA 679 4.36 YES Jan-05 Jul-06 N/A DA042 SV-21 (IWF) L3 Comms Corp, NJ SS/FFP DIR NSA Jul-05 229 8.25 YES 04 Jan-04 N/A DA042 SV-21 (IWF) 05 L3 Comms Corp, NJ SS/FFP DIR NSA Jul-06 297 8.35 YES Jan-05 N/A DA043 SV-21 (CRYPTO) 04 L3 Comms Corp, NJ SS/FFP DIR NSA Jan-04 Jul-05 121 13 81 YFS N/A DA043 SV-21 (CRYPTO) 05 L3 Comms Corp, NJ SS/FFP DIR NSA Jan-05 Jul-06 168 13.95 YES N/A DA009 SDS 03 GTC (Group Tech Corp), FL SS/FFP NSA/SSC SD 2.00 YES Jun-03 Jun-04 1,435 N/A DA009 SDS 04 GTC (Group Tech Corp), FL SS/FFP NSA/SSC SD Apr-04 Apr-05 1,547 2.03 YES N/A DA009 SDS 05 GTC (Group Tech Corp), FL SS/FFP NSA/SSC SD Apr-05 948 2.05 YFS Apr-06 N/A L3 Comms Corp, NJ DA003 LMD REPLACEMENT 03 C/IDIQ NSA/SSC CH Jul-03 Jan-04 50 3.00 YES N/A DA003 LMD REPLACEMENT 04 L3 Comms Corp, NJ C/IDIQ NSA/SSC CH Jan-04 Jul-04 101 3.05 YES N/A DA003 LMD REPLACEMENT 05 L3 Comms Corp, NJ C/IDIQ NSA/SSC CH Jan-05 Jul-05 140 3.08 YES N/A 02 SS/FFP 0329P STE - (DERF)/(COW) L3 Comms Corp, NJ DIR NSA Dec-01 Jun-03 2,410 5.10 YES N/A

#### D. REMARKS

DA009 - FY02 unit cost includes NRE costs in support of the DTD procurements.

DA009 - Product name change from DTD/KOV-21 to Secure DTD 2000 System (SDS) beginning in FY03.

DA013 - STE Unit cost is based on an average of 6 different configurations and can vary from year to year. Reference L3 Comms NSA Contract 96-D-0025 (POOOO7).

<sup>0329</sup>P - FY02 DERF/COW funding under this cost code is \$12,300K.

MODIFICATION TITLE: STE (SECURE TERMINAL EQUIPMENT) - SHIP February 2004

COST CODE DA013/DA777

MODELS OF SYSTEMS AFFECTED: NONE

DESCRIPTION/JUSTIFICATION: STE

STE is a desktop terminal for classified voice, data, facsimile, video and voice conferencing. Various configurations of STE phones exist including: Office, Data, Tactical, Narrowband, Condor (wireless), and C2 (TACTERM). In addition, associated ancillary items procured include: handsets, power supplies, PUP sleeves and FNDBT upgrade kits.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FINANCIAL PLAN: (\$ in millions)           Prior Yrs         FY 02         FY 03         FY 04         FY 05         FY 06         FY 07         FY 08         FY 09         TC         Tot													
								Total						
Qty \$ Qty \$ Qty	\$ Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$						
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment 0,575 16.2 1,250 4.6 1,250 Equipment Nonrecurring Engineering Change Orders Data	4.4 412 1.3		955 2.4	940 2.7	945 2.7	963 3.2	CONT CONT	CONT CONT						
Training Equipment         1.5         1.0           Production Support         1.5         1.0           Other (DSA)         0.5         0.1           Interm Contractor Support         0.5         0.1	3.5 1.7	0.3	1.1	1.0	1.0	1.0	CONT CONT							
Installation of Hardware 1,250 0.0 1,325 1.5 1,250 PRIOR YR EQUIP 1,250 0.0 1,325 1.5 1,250 FY 02 EQUIP FY 03 EQUIP FY 03 EQUIP	1.4 1,250 1.2 1.4 1,250 1.2		412 0.2	2	955 1.0	940 0.9	CONT CONT	CONT CONT 3,825 2.9 1,250 1.2 1,250 1.3						
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP		1,250 1.3	412 0.2	2	955 1.0			412 0.2 0 0.0 955 1.0						
FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP					1.0	940 0.9		940 0.9 0 0.0 0 0.0						
FY TC EQUIP							CONT CONT	CONT CONT						
TOTAL INSTALLATION COST 0.5 1.6	1.4 1.2		0.2			0.9		CONT						
TOTAL PROCUREMENT COST 18.2 7.2	9.3 4.2	1.6	3.7	3.7	4.7	5.1	CONT	CONT						

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE LI	EADTIME:		3	Months			PRODUC	TION LEA	DTIME:		18 Months
CONTRACT DA	TES:		FY 2002:		Mar-02		FY 2003:		Jan-03			FY 2004:		Jan-04			FY 2005:		Jan-05	
DELIVERY DA	DELIVERY DATES:		FY 2002:		Sep-03		FY 2003:		Jul-04		FY 2004:			Jul-05		FY 2005:			Jul-06	
INSTALLATION SCHEDULE:			1	F)	702		1	FY	703		1	FY	′04 3	4	1	FY	705	4	1	
INSTALLATION SCHEDULE.		PY	'	<u> </u>		4	'			T *	'			4	'		3	1		
	IN		396	396	396	137	312	310	315	313	312	310	315	313	312	310	315	313		
	OUT		396	396	396	137	312	310	315	313	312	310	315	313	312	310	315	313		
				F١	/06			F١	/07			F١	′08			F١	/09			
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN		103	103	103	103					238	238	239	240	235	235	235	235	CONT	CONT
	OUT		103	103	103	103					238	238	239	240	235	235	235	235	CONT	CONT

#### Notes/Comments:

Inventory Objective - 60,000 total for Navy, Marine Corps and Coast Guard.

Production Support - all STE production support is reflected on this shipboard P-3a.

Installations costs - not applicable for prior years due to self-installs.

MODIFICATION TITLE: STE (SECURE TERMINAL EQUIPMENT) - SHORE February 2004

COST CODE DA013/DA777

NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

STE is a desktop terminal for classified voice, data, facsimile, video and voice conferencing. Various configurations of STE phones exist including: Office, Data, Tactical, Narrowband, Condor (wireless), and C2

(TACTERM). In addition, associated ancillary items procured include: handsets, power supplies, PUP sleeves and FNDBT upgrade kits.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINA	NCIAL PLAN:	(\$ in mil	lions)									
	Prior Y	⁄rs	FY 0	2	FY 03	3	FY 0	4	FY 05	5	FY 06	6	FY 0	7	FY 08	,	FY 0	9	TC		Tota	ı
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	2,341	14.7	1,757	6.3	8,543	30.0	10,243	32.6	679	3.0	6,565	16.8	5,507	16.0	5,532	16.1	5,203	17.0	CONT	CONT	CONT	CONT
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP	19 19	0.8 0.8	3 3	0.7 0.7	5 5	1.0 1.0													CONT	CONT	CONT 27 0 0 0 0 0 0 0 0 0 0 0 CONT	CONT 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
TOTAL INSTALLATION COST		0.8		0.7		1.0		0.0		0.0		0.0		0.0		0.0		0.0		CONT		CONT
TOTAL PROCUREMENT COST		15.5		7.0		31.0		32.6		3.0		16.8		16.0		16.1		17.0		CONT		CONT

METHOD OF IMPLEMENTATION:							ADMINISTRATIVE LEADTIME: 3 Months									PRODUC		18 Months		
CONTRACT	CONTRACT DATES:				Mar-02		FY 2003:		Jan-03			FY 2004:		Jan-04			FY 2005:		Jan-05	
DELIVERY DATES:		FY 2002: Sep-03				FY 2003: Jul-04			FY 2004: Jul-05						FY 2005:	Jul-06				
				F	Y02				/03			FY	′04		1	F	Y05		1	
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	_	
	IN	19	1	1	1		1	2	2											
	OUT	19	1	1	1		1	2	2											
																			_	
				F'	Y06			FY	/07			FY	′08			F`	Y09			
INSTALLATION SCHEDULE (Co	ont):		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN																		CONT	CONT
	OUT																		CONT	CONT

#### Notes/Comments:

Inventory Objective - 60,000 total for Navy, Marine Corps and Coast Guard. Production Support - all STE production support is reflected on the shipboard P-3a. Installation costs - only applicable to shore STE Inter-Working Functions (IWF).

MODIFICATION TITLE: SV-21 (IWF) - SHORE February 2004

COST CODE
MODELS OF SYSTEMS AFFECTED:

DA042/DA777 NONE

DESCRIPTION/JUSTIFICATION:

Secure Voice for the 21st Century (SV-21) is a device called the Inter-Working Functions (IWF) which provides a direct dial gateway, rack mountable, and multi-channel gateway that transfers clear or encrypted digital voice/data to multiplexer radio frequency equipment for SATCOM transmission.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

_										FINA	NCIAL PLAN	: (\$ in mil	llions)									
	Prior	Yrs	FY	02	FY	03	FY 0	14	FY 0	)5	FY 0	6	FY 0	7	FY 0	8	FY 0	9	TC		Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)							229	1.9	297	2.5	46	0.4		0.4	40	0.4	41	0.4	CONT	CONT	CONT	CONT
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP											229	0.4		0.4	46	0.3	41	0.3	CONT	CONT	CONT 0 0 0 229 297	CONT 0.0 0.0 0.0 0.4 0.4
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY TO EQUIP FY TO EQUIP															46	0.3	41	0.3	CONT	CONT	46 41 0 0	0.3 0.3 0.0 0.0 CONT
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0	-	0.0		0.4		0.4		0.3		0.3		CONT		CONT
TOTAL PROCUREMENT COST		0.0		0.0	)	0.0		2.0	-	2.6		0.8		0.8		0.7		0.7		CONT		CONT

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE LE	EADTIME:		3	Months			PRODUC	TION LEAD	OTIME:		18 Months
CONTRACT DAT	ES:					FY 2003:					FY 2004:		Jan-04			FY 2005:		Jan-05		
DELIVERY DAT	ES:					FY 2003:					FY 2004:		Jul-05			FY 2005:		Jul-06		
INICTALLATION COLLEGE IN E.		DV		FY	702				⁄03			FY	′04		4	FY	05		1	
INSTALLATION SCHEDULE:	IN	PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
	OUT																			
	001		1						<u> </u>		1								1	
				FY	/06			FY	′07			FY	′08				′09			
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL
	IN		57	57	57	58	74	74	74	75	12	12	11	11	11	10	10	10	CONT	CONT
	OUT		57	57	57	58	74	74	74	75	12	12	11	11	11	10	10	10	CONT	CONT

Notes/Comments:

CND (COMPUTER NETWORK DEFENSE) - SHIP MODIFICATION TITLE: February 2004

COST CODE MODELS OF SYSTEMS AFFECTED: DA070/DA777 NONE

DESCRIPTION/JUSTIFICATION:

Computer Network Defense systems include: Firewalls, Virtual Private Networks (VPNs), Intrusion Detection Systems (IDSs), Coalition Data Servers (CODs), Standard Mail Guards (SMGs), Certification Authority Workstations (CAWs), and other related security tools.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

_											NCIAL PLAN	l: (\$ in mil										
	Prior Y	rs	FY 02	2	FY 0	3	FY 0	4	FY 0	)5	FY 0	96	FY 07		FY 0	8	FY 0	19	TC		Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Installation Kits Nonrecurring Equipment - CND Equipment - CMSEC Equipment Nonrecurring Engineering Change Orders Data	VAR VAR	20.1 0.0	VAR VAR	4.5 0.0	VAR VAR	2.1 0.0	VAR ***	3.0		4.2 *COMSE	VAR C moved to 0	3.9 Cost Code	VAR e DA071 beginr	4.6 ning in F	VAR FY04 ******	3.8	VAR	3.8	CONT	CONT	CONT	CONT
Training Equipment Production Support - CND Production Support - COMSEC		2.3		1.9		1.7 1.8	***	0.5		0.5	C moved to (	0.6	e DA071 beginr	0.6	FY04 ******	0.6		0.6	CONT	CONT	CONT	CONT
Other (DSA) Interm Contractor Support		0.7		0.3		0.2		0.2		0.3	o moved to t	0.2	b bror i begiiii	0.2	1 104	0.2		0.2	CONT	CONT	CONT	CONT
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 04 EQUIP	VAR VAR	1.8 1.8	VAR VAR	0.6 0.6	VAR VAR	0.8	VAR	1.5 1.5		1.6	VAR	1.7	VAR	1.9	VAR	1.4	VAR	1.5	CONT	CONT	CONT VAR VAR VAR VAR	CONT 1.8 0.6 0.8 1.5
FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP									VAR	1.6	VAR	1.7	VAR	1.9	VAR	1.4	VAR	1.5			VAR VAR VAR VAR	1.6 1.7 1.9 1.4 1.5
FY TC EQUIP TOTAL INSTALLATION COST		2.5		0.9		1.0		1.7		1.9		1.9		2.1		1.6		1.7	CONT	CONT	CONT	CONT
TOTAL PROCUREMENT COST		25.9		8.6		6.6		5.2		6.6		6.4		7.3		6.0		6.1		CONT		CONT
		20.0		0.0		0.0		0.2	l .	0.0	l .	0.1	l .	0		0.0	l .	0.1		23.11		

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various CONTRACT DATES: FY 2003: FY 2004: FY 2005: DELIVERY DATES: FY 2003: FY 2004: FY 2005: INSTALLATION SCHEDULE: IN OUT FY06 FY07 FY08 FY09 TOTAL INSTALLATION SCHEDULE (Cont): TC IN CONT

#### Notes/Comments:

Production Support - all NSS/COMSEC production support is reflected on this shipboard P-3a. COMSEC portion moved to separate cost code DA071 beginning in FY04.

OUT

CONT

CONT

CND (COMPUTER NETWORK DEFENSE) - SHORE DA070/DA777 MODIFICATION TITLE: February 2004

COST CODE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Computer Network Defense systems include: Firewalls, Virtual Private Networks (VPNs), Intrusion Detection Systems (IDSs), Coalition Data Servers (CODs), Standard Mail Guards (SMGs), Certification Authority Workstations (CAWs), and other related security tools.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINA	ICIAL PLAN:	(\$ in mil	llions)									
	Prior Y	'rs	FY 0:	2	FY 03	3	FY 04		FY 0	5	FY 06	3	FY 0	7	FY 0	18	FY 0	9	TC	;	Tota	al
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																		_	-			
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment - CND	VAR	16.2	VAR	6.2	VAR	8.3	VAR	7.3	VAR	5.0	VAR	8.0		6.4	VAR	7.4	VAR	7.6	CONT	CONT	CONT	CONT
Equipment - COMSEC	VAR	91.4	VAR	33.7	VAR	12.4	***	*******	******	COMSE	C moved to C	Cost Code	e DA071 beg	inning in	FY04 ******	*******	******					
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support																						
Other (DSA)																						
Interm Contractor Support		40.5			\/AB	4 -					\/AB				\/AB		\/A.D		CONT	00117	CONT	00117
Installation of Hardware PRIOR YR EQUIP	VAR VAR	18.5 18.5	VAR	3.4	VAR	1.7	VAR	0.6	VAR	0.9	VAR	0.7	VAR	0.6	VAR	0.9	VAR	0.9	CONT	CONT	CONT	CONT
FY 02 EQUIP	VAR	18.5	VAR	3.4																	VAR	18.5 3.4
FY 03 EQUIP			VAR	3.4	VAR	1.7															VAR	1.7
FY 04 EQUIP					VAIN	1.7	VAR	0.6													VAR	0.6
FY 05 EQUIP							VAR	0.0	VAR	0.9											VAR	0.0
FY 06 EQUIP									VAIX	0.5	VAR	0.7									VAR	0.3
FY 07 EQUIP											VAIX	0.7	VAR	0.6							VAR	0.6
FY 08 EQUIP													V/ (( \	0.0	VAR	0.9					VAR	0.9
FY 09 EQUIP															¥7.41¢	0.0	VAR	0.9			VAR	0.9
FY TC EQUIP																	*/"	0.5	CONT	CONT		CONT
TOTAL INSTALLATION COST		18.5		3.4		1.7		0.6		0.9		0.7		0.6		0.9	1	0.9	00	CONT		CONT
TOTAL PROCUREMENT COST		126.1		43.3		22.4		7.9		5.9		8.7		7.0		8.3	1	8.5		CONT		CONT

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE L	EADTIME:		Various				PRODUC	TION LEA	DTIME:		Various
CONTRACT DA	ES:				FY 2003:					FY 2004:					FY 2005:					
DELIVERY DA	ES:				FY 2003:					FY 2004:					FY 2005:					
				F	Y02			FY	′03		1	FY	04			FY	/05		1	
INSTALLATION SCHEDULE:		PY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
	IN																			
	OUT																			
							1								ı				1	
INSTALLATION SCHEDULE (Cont):			1	2	Y06 3	4	1	2 2	′07 3	4	1	FY 2	3	4	1	2	/09 3	4	TC	TOTAL
	IN																		CONT	CONT
	OUT																		CONT	CONT

#### Notes/Comments:

Production Support - all NSS/COMSEC production support is reflected on the shipboard P-3a. COMSEC portion moved to separate cost code DA071 beginning in FY04.

CND NIASM IDS - SHIP MODIFICATION TITLE: February 2004

COST CODE MODELS OF SYSTEMS AFFECTED: DA070/DA777 NONE

DESCRIPTION/JUSTIFICATION:

Procurement and installation of the Navy Intelligent Agent Security Module (NIASM), a network intrusion detection system that provides sensors at key points in the network that read and interpret intrusion events as they occur and signal network operation personnel of attacks.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	,				1		1				NCIAL PLAI											
	Prior `	Yrs	FY	02	FY (		FY (	)4	FY (		FY (		FY	07	FY	08	FY	09		C	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	12	3.7																			12.0	3.7
Equipment Nonrecurring																						
Engineering Change Orders				1.0																	0.0	1.0
Data																						
Training Equipment																						
Production Support																						
Other (DSA)						0.2		0.2													0.0	0.4
Interm Contractor Support																						
Installation of Hardware							4	0.4	4	0.4	4	0.4									12.0	1.2
PRIOR YR EQUIP							4	0.4	4	0.4	4	0.4									12.0	1.2
FY 02 EQUIP																					0.0	0.0
FY 03 EQUIP																					0.0	0.0
FY 04 EQUIP																					0.0	0.0
FY 05 EQUIP																					0.0	0.0
FY 06 EQUIP																					0.0	0.0
FY 07 EQUIP																					0.0	0.0
FY 08 EQUIP																					0.0	0.0
FY 09 EQUIP																					0.0	0.0
FY TC EQUIP																					0.0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.2		0.6		0.4		0.4		0.0		0.0		0.0		0.0		1.6
TOTAL PROCUREMENT COST		3.7		1.0		0.2		0.6		0.4		0.4		0.0		0.0		0.0		0.0		6.3

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various

CONTRACT DATES: FY 2003: FY 2004: FY 2005:

DELIVERY DATES: FY 2003: FY 2004: FY 2005:

INSTALLATION SCHEDULE: PY IN OUT

FY06 FY07 FY08 FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL 12 IN OUT

### Notes/Comments:

FY02 NIASM is a congressional plus-up for upgrades shown in Engineering Change Order.

CND NIASM IDS - SHORE MODIFICATION TITLE: February 2004

COST CODE

DA070/DA777 NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Procurement and installation of the Navy Intelligent Agent Security Module (NIASM), a network intrusion detection system that provides sensors at key points in the network that read and interpret intrusion events as they occur and signal network operation personnel of attacks.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

											NCIAL PLAI											
	Prior Y	/rs	FY (	02	FY	03	FY 0		FY	05	FY (		FY		FY	08	FY	09	T	0	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring																						
Equipment Equipment Nonrecurring	8	2.6																			8.0	2.6
Engineering Change Orders Data				0.5																	0.0	0.5
Training Equipment Production Support Other (DSA) Interm Contractor Support																						
Installation of Hardware PRIOR YR EQUIP							8 8	0.5 0.5													8.0 8.0	0.5 0.5
FY 02 EQUIP FY 03 EQUIP																					0.0	0.0
FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP																					0.0 0.0 0.0	0.0 0.0 0.0
FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP																					0.0 0.0	0.0
FY 09 EQUIP FY TC EQUIP																					0.0	0.0
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.5		0.0		0.0		0.0		0.0		0.0		0.0	0.0	0.5
TOTAL PROCUREMENT COST		2.6		0.5		0.0		0.5		0.0		0.0		0.0		0.0		0.0		0.0		3.6

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various

CONTRACT DATES: FY 2003: FY 2004: FY 2005:

DELIVERY DATES: FY 2003: FY 2004: FY 2005:

INSTALLATION SCHEDULE: PY IN OUT

FY06 FY07 FY08 FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL IN OUT

### Notes/Comments:

FY02 NIASM is a congressional plus-up for upgrades shown in Engineering Change Order.

MODIFICATION TITLE: LMD (LOCAL MANAGEMENT DEVICE) - SHIP February 2004

COST CODE

DA003/DA777 NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Tier 2 LMD replacements provide upgraded COTS (Commercial Off The Shelf) computer processing units (CPUs) which interface between the Key Processor (I.e. KOK-22) and other EKMS elements to provide enhanced management capabilities to order and account for all forms of COMSEC material. Capabilities include storing in key encrypted form, performing key generation and automatic key distribution.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Prior Yrs											FINA	NCIAL PLAN	l: (\$ in mil	llions)									
RDT8E PROCUEEMENT: Kit Quantity Installation Kits Installation Kits Installation Kits Installation Kits Nonrecurring Equipment Atornecurring Erigineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP PY 03 EQUIP PY 05 EQUIP PY 05 EQUIP PY 05 EQUIP PY 05 EQUIP PY 07 EQUIP PY 07 EQUIP PY 08 EQUIP PY 07 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 08 EQUIP PY 07 EQUIP PY 08 EQUIP PY 07 EQUIP PY 08		Pri	ior Yrs		02	FY (	)3		4	FY 0	5	FY 0	6	FY 07		FY 0	8	FY 0	9	TC		Tota	d
PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Equipment Support Data Training Equipment Production Support Other (DSA) Internet Contractor Support Installation of Hardware PY 02 EQUIP PY 02 EQUIP PY 04 EQUIP PY 05 EQUIP P		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP	PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)					50		60		25		40		40				40					
FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 07 EQUIP FY 08	Installation of Hardware PRIOR YR EQUIP							50	0.3	60	0.3	25	0.1	40	0.2	40	0.2	40	0.2	CONT	CONT	0.0	0.0
	FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 07 EQUIP FY 09 EQUIP							50		60		25		40		40		40		CONT		50.0 60.0 25.0 40.0 40.0 40.0 0.0	0.3 0.3 0.1 0.2 0.2 0.2 0.0 CONT
TOTAL PROCUREMENT COST   0.01 0.01 0.21 0.51 0.41 0.21 0.31 0.31 0.31 CONT   CONT																							
	TOTAL PROCUREMENT COST		0.0		0.0		0.2		0.5		0.4		0.2		0.3		0.3		0.3		CONT		CONT

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE L	EADTIME:		3	Months			PRODUC	TION LEAI	OTIME:		6 N	Months
CONTRACT DA	TES:				FY 2003:		Jul-03			FY 2004:		Jan-04			FY 2005:		Jan-05				
DELIVERY DA	TES:				FY 2003:		Jan-04			FY 2004:		Jul-04			FY 2005:		Jul-05				
INSTALLATION SCHEDULE:		PY	1	F)	702	1	1	FY 2	703	1	1	F \	Y04	1	1	FY 2	′05 3	1	1		
INSTALLATION SCHEDOLE.	IN	FI	'					2	3		10	20	15	5	5	25	25	5	1		
	OUT										10	20	15	5	5	25	25	5	]		
				F	706		l	FY	′07		l	F	Y08		I	FY	′09		I		
INSTALLATION SCHEDULE (Cont):			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	TOTAL	
	IN		5	10	5	5	5	10	20	5	5	10	20	5	5	10	20	5	CONT	CONT	

#### Notes/Comments:

Production Support - all LMD production support is reflected on this shipboard P-3a. Cost less than \$30K per year, DSA costs - not applicable due to the install being a field change.

OUT

MODIFICATION TITLE: LMD (LOCAL MANAGEMENT DEVICE) - SHORE February 2004

COST CODE

DA003 NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

Tier 2 LMD replacements provide upgraded COTS (Commercial Off The Shelf) computer processing units (CPUs) which interface between the Key Processor (I.e. KOK-22) and other EKMS elements to provide enhanced management capabilities to order and account for all forms of COMSEC material. Capabilities include storing in key encrypted form, performing key generation and automatic key distribution.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINA	NCIAL PLAN:	(\$ in mil	llions)									
	Prior Y	rs	FY (	)2	FY 0	3	FY 0	4	FY 0	)5	FY 06	j	FY 07		FY 08		FY 09	9	TC		Tota	ı
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA) Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY Q2 EQUIP	187	1.0	58	0.3		0.0	41	0.1	115	0.3	143	0.5	j	0.3	80	0.3	80	0.3	CONT	CONT	CONT  0.0 0.0	CONT 0.0 0.0 0.0
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP																					0.0	0.0
FY 04 EQUIP FY 05 EQUIP																					0.0 0.0	0.0
FY 06 EQUIP																					0.0	0.0
FY 07 EQUIP																					0.0	0.0
FY 08 EQUIP FY 09 EQUIP FY TC EQUIP																					0.0 0.0 CONT	0.0 0.0 CONT
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL PROCUREMENT COST		1.0		0.3		0.0		0.1		0.3		0.5		0.3		0.3		0.3		CONT		CONT

METHOD OF IMPLEMENTATION:								ADMINIST	RATIVE LE	EADTIME:		3	Months			PRODUC	TION LEA	DTIME:		6 Months
CONTRACT DAT	ES:				FY 2003:		Jul-03			FY 2004:		Jan-04			FY 2005:		Jan-05	;		
DELIVERY DAT	ES:				FY 2003:		Jan-04			FY 2004:		Jul-04			FY 2005:		Jul-05	i		
				FY	702			FY	703			FY	04			F	Y05		1	
INSTALLATION SCHEDULE:					3	4	1	2	3	4	1	2	3	4	1	2	3	4		
	IN OUT																			
	ОИТ																			
					<b>100</b>		1		/0 <del>7</del>		1		700		ı		·/00		ı	<del></del>
INSTALLATION SCHEDULE (Cont):	STALLATION SCHEDULE (Cont):				/06 3	4	1	2	/07 3	4	1	FY 2	3	4	1	2	Y09 3	4	TC	TOTAL
	IN																			

Production Support - all LMD production support is reflected on the shipboard P-3a. Installations - all LMD replacements are self-installs for shore activities.

MODIFICATION TITLE: DMS (DEFENSE MESSAGE SYSTEM) SECURITY PRODUCTS - SHIP
COST CODE DA019/DA777

February 2004

MODELS OF SYSTEMS AFFECTED:

NONE

DESCRIPTION/JUSTIFICATION:

DMS provides secure, accountable and reliable messaging with global integrated directory services. Procurements include a combination of Certificate Authority Workstations (CAWs), Fortezza cards (KOV-11) and Standard Mail Guards (SMGs). These products allow two-way flow between Secret Local Area Networks (LANs) and Unclassified LANs.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

											NCIAL PLA											
	Prior	Yrs	FY	02	FY 0	3	FY	04		′ 05	FY	06	FY	07		08		09	T	C	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	,		,	0.1		0.5 0.1 0.1					,		,		,		,				VAR	0.5 0.2 0.2
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 08 EQUIP FY 09 EQUIP FY 09 EQUIP FY 09 EQUIP					VAR VAR	0.4															VAR 0.0 0.0 VAR 0.0 VAR 0.0 0.0 0.0	0.4 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.0		0.1		0.5		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.6
TOTAL PROCUREMENT COST		0.0		0.2	1	1.1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		1.3

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various CONTRACT DATES: FY 2003: FY 2004: FY 2005: DELIVERY DATES: FY 2003: FY 2004: FY 2005: INSTALLATION SCHEDULE: PY IN OUT FY06 FY07 FY08 FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL IN OUT

#### Notes/Comments

Production Support - all DMS production support is reflected on this shipboard P-3a.

MODIFICATION TITLE: DMS (DEFENSE MESSAGE SYSTEM) SECURITY PRODUCTS - SHORE February 2004

COST CODE

DA019/DA777 NONE

MODELS OF SYSTEMS AFFECTED: DESCRIPTION/JUSTIFICATION:

DMS provides secure, accountable and reliable messaging with global integrated directory services. Procurements include a combination of Certificate Authority Workstations (CAWs), Fortezza cards (KOV-11) and Standard Mail Guards (SMGs). These products allow two-way flow between Secret high Local Area Networks (LANs) and Unclassified LANs.

#### DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

										FINA	NCIAL PLA	N: (\$ in mi	llions)									
	Prio	r Yrs	FY 0	2	FY 0	3	FY	04	FY	05	FY	06	FY	07	FY (	08	FY	′ 09	T	C	Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Production Support Other (DSA)	uty	•	VAR	2.5		0.5	Gry	<b>.</b>	saty	Ţ,	ucy	•	diy	•	diy	•	saty	•	uty	*	VAR	3.0
Interm Contractor Support Installation of Hardware PRIOR YR EQUIP			VAR	1.3		1.2															VAR 0.0	2.5
FY 02 EQUIP FY 03 EQUIP FY 04 EQUIP FY 05 EQUIP FY 06 EQUIP FY 07 EQUIP FY 08 EQUIP FY 09 EQUIP FY 07 EQUIP FY 08 EQUIP			VAR	1.3	VAR	1.2															VAR VAR 0.0 0.0 0.0 0.0 0.0 0.0	1.3 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0
TOTAL INSTALLATION COST		0.0		1.3		1.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.5
TOTAL PROCUREMENT COST		0.0		3.8		1.7		0.0		0.0		0.0		0.0		0.0		0.0		0.0		5.5

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various CONTRACT DATES: FY 2003: FY 2004: FY 2005: DELIVERY DATES: FY 2003: FY 2004: FY 2005: INSTALLATION SCHEDULE: PY IN OUT FY06 FY08 FY09 INSTALLATION SCHEDULE (Cont): TC TOTAL IN OUT

#### Notes/Comments

Production Support - all DMS production support is reflected on the shipboard P-3a.

PROD	OUCTION SCHEDULE																															DATE Febru	: iary 201	04						
	PRIATION/BUDGET ACTIVITY															MENC																			EAD N	Ю.				
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DA042	SV-21 (IWF)	04	229		229	)		А																		19	19	19	19	19	19	19	19	19	19	19	20			
DA042	SV-21 (IWF)	05	297		297	•														Α																		25	25	25
	, ,																																							
DA043	SV-21 (CRYPTO)	04	121		121			А																		10	10	10	10	10	10	10	10	10	10	10	11			
DA043	SV-21 (CRYPTO)	05	168		168	3														Α																		14	14	14
DA009		03	1,435		1,435								120	120	120	120	120	120	120	119	119	119		119																
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DA003	LMD REPLACEMENT	05	140		140	)														Α						12	12	12	12	12	12	12	12	11	11	11	11	'		
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			PRODUCTION RAT	Ē.		PROCUREME	NT LEADTIMES			
	Manufacturer's				ALT Prior	ALT After	Initial	Reorder		Unit of
ITEM	Name and Location	MSR	1-8-5	MAX	to Oct 1	Oct 1	Mfg PLT	Mfg PLT	Total	Measure
DA013 - STE	L3 Comms Corp, New Jersey	**	**	**						
DA009 - SDS	Group Tech Corp, Florida	500	1,000	2,000						
DA009 - CYZ-10 UPGRADES	Group Tech Corp, Florida	500	1,000	2,000						
DA003 - LMD REPLACEMENT	L3 Comms Corp, New Jersey	TBD	TBD	TBD						
0329P - STE (DERF)/(COW)	L3 Comms Corp, New Jersey	**	**	**						
	·									

<sup>\*\*</sup> All services procure requirements thru NSA. Production rates are determined by NSA.

REMARKS:
DA009 - Product name change to SDS in FY03.
DA013 - (STE) Units delivered May through August are for shore sites. Units for installation aboard ships begin with September deliveries.
DA013 - (STE) FY01 delivery schedule is based upon the individual service's (Navy, Airforce, Army) priorities. Navy deliveries begin Sept 02.

## UNCLASSIFIED CLASSIFICATION

BUDGET ITEM .	JUSTIFICAT	ION SHEET							DATE	February 2004
APPROPRIATION/BUD OP,N - BA2 COMMUNI		CTRONIC EQUIP	MENT			P-1 ITEM NOME CRYPTOLOGIC		501		SUBHEAD 521V
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	то сомр	TOTAL	
QUANTITY										
COST	\$21.5	\$24.5	\$26.1	\$26.2	\$27.5	\$27.4	\$27.0	Continuing	Continuing	

NARRATIVE DESCRIPTION JUSTIFICATION: This line supports the Cryptologic Carry-on Program (CCOP), the Signals Analysis Laboratory Program (SAL), the Navy Elint Program and the IW PROGRAM.

CRYPTOLOGIC CARRY-ON EQUIPMENT: This program procures state-of-the-art, Commercial Off-The-Shelf (COTS) signal acquisition equipment (hardware and software) in response to Combatant Command requirements for a quick-reaction surface, subsurface and airborne cryptologic carry-on capability. The equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare (IW)/Cryptologic System (SIWCS) ORD (Serial Number: 537-06-99) of 9 Dec 99. Due to a continually changing threat environment, detailed requirements are dynamic and equipment procured varies by quantity and type. Equipment can be suites configured for many targets and tasking, or target specific subsystems that can either operate standalone within cryptologic spaces or as an add-on to existing equipment. Hardware procurement includes: receivers, recorders, Transportable-Radio Direction Finding (T-RDF) systems, tactical computers and related peripherals, antennas, Electronic-Warfare Support Measures (ESM) systems, and advanced signal and search equipment including spectrum analyzers, VXI chassis/cards and associated portable Special Intelligence communications equipment. CCOP equipment is installed in AN/SSQ-99 vans for deployment, and as an augment to cryptologic capabilities on subsurface, surface and air platforms. There are approximately 100 cryptologic capable surface ships in the current Navy inventory. Each of these ships are potential users of this carry-on equipment, depending on deployment schedules and the tempo of operations. In addition, there are numerous subsurface and air platforms that are also potential users. The temporary installation of equipment is coordinated through Fleet Electronic Support (FES) personnel. A primary product of this line is the Advanced Cryptologic Carry-on Exploitation System (ACCES). The outdated SSQ-80A(V) analog systems were converted to ACCES by modernizing them with VXI-based digital Signal Processing (DSP) capabilities and an open, modular architecture that provides flexibi

BUDGET ITEM JUSTIFICATION SHEET		DATE	February 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		SUBHEAD
OPN - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	CRYPTOLOGIC EQUIPMENT	3501	521V

GLOBAL SIGNAL ANALYSIS LABORATORY (GSAL): The GSAL (Commander Naval Security Group CLASSIC SENSEI) Program directly supports tactical commanders with tailored and responsive feedback from theater Information Warfare (IW) exploitation operations. Navy Signal Analysis Laboratories (SALs) are forward based signal analysis and processing centers for complex communications and electronic emissions. SALs require advanced signal processing equipment to keep pace with information technology and continually changing target sets. Funds are required to procure signal analysis equipment and information transfer backbone to perform shore-based IW exploitation of data resulting from mobile collection missions, and to aid real-time exploitation efforts. Signal analysis is performed at the labs using various advanced exploitation analog and digital processing devices. Signal information is passed back to the labs via electronic means and various magnetic media. The lab requires a high capacity Local Area Network (LAN) infrastructure tied in with the Global Command and Control System Maritime (GCCS-M) to properly conduct information and data exchange. GSAL signals analysis equipment exist at Naval Information Warfare Activity (NIWA), NSGA Rota, NSGA Yokosuka and NSGA Norfolk. Under Commander Naval Security Group transformational initiative titled GSAL realignment, GSAL signals analysis equipment is envisioned to support theater - level National Maritime operations at NSGA Kunia, NSGA Fort Gordon, and NSGA Rota, with forward digitization nodes (Smart Nodes) at Kadena Okinawa, JA, NSGA Bahrain, and Souda Bay Crete, Greece.

NAVY ELINT: To procure the Naval Electronic Support Sensor Enhancement (NESSE) augmentation package, a modular system that performs radar search, detection and data collection is support of a variety of surface ship requirements. NESSE will provide the tactical commander with automated reporting, enhanced connectivity and the ability to link with like sensors.

IW PROGRAMS: To procure equipment to support the augmentation of permanently installed cryptologic equipment with emergent cryptologic capabilities in support of operational and target developmental tasking.

MARITIME CRYPTOLOGIC DATABASE FACILITY (MCDF): The funding will provide for Advanced Database Replication for tactical intelligence networks, improved life cycle support to deployed systems, improved integration into Joint Shared Data Environments, and tighter integration of MIDB into the Maritime Cryptologic Architecture (MCA), and technology refresh.

## UNCLASSIFIED CLASSIFICATION

COST ANALYSIS DATE

APPROPRIATION ACTIVITY P-1 ITEM NOMENCLATURE SUBHEAD

OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT CRYPTOLOGIC EQUIPMENT 3501 521V TOTAL COST IN THOUSANDS OF DOLLARS PY FY02 FY04 FY03 FY05 COST ID TOTAL UNIT TOTAL UNIT TOTAL UNIT TOTAL UNIT TOTAL CODE **ELEMENT OF COST** CODE COST QTY COST COST QTY COST COST QTY COST COST QTY COST COST **MAJOR CLAIMANCY -- SPAWAR** 1V555 PRODUCTION SUPPORT Α 1.010 1,307 1.381 1V043 T-RDF EQUIPMENT 5 369 1,845 Α 1V045 ACCES SYSTEMS VAR VAR 17,204 VAR 18,259 Α 17,218 TOTAL SPAWAR CONTROL 18.511 20.073 19.640 **MAJOR CLAIMANCY -- CNSG** 1V042 SIGNAL ANALYSIS LAB (SAL) VAR VAR 1.058 VAR 975 1.181 NAVY ELINT VAR 3,687 VAR 4,114 FLEET ELECTRONIC SUPPORT VAR 433 VAR 297 VAR 313 MARITIME CRYPTOLOGIC DATABASE FACILITY (MCDF) VAR 974 VAR 863 **TOTAL CNSG CONTROL** 1,408 6,016 6,471 **GRAND TOTAL** 21,481 24.527 26.111

SAL - FY03 upgraded theater Si+A102gnals Processing Capability. FY04 and beyond continues technology refresh and implements equipment acquisition in support of NSG wide SAL transformation from 5 SALs to 3 SALS.

February 2004

REMARKS:

#### CLASSIFICATION:

### **UNCLASSIFIED**

			BUDGET ITEM JU	JSTIFIC	CATION SHE	ET			DATE:			
				P-40						FEBRUA	RY 2004	
APPROPRIATION/BUD OTHER PROCURE							P-1 ITEM NOM	ENCLATURE				
<b>BA-2 Communicati</b>	ions & Elect	tronic E	quipment				Coast Guard	d Equipment/BL	I 3620			
Program Element for Co	ode B Items:						Other Related F	Program Elements				
		ID									То	
		Code	FY 2	2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Complete	Total
QUANTITY												
COST												
(In Millions)			\$0	0.0	\$12.5	\$7.6	\$31.2	\$29.3	\$28.6	\$28.2	CONT.	CONT.
SPARES COST												
(In Millions)												

#### MISSION DESCRIPTION AND BUDGET JUSTIFICATION:

The Coast Guard Equipment line funds the Coast Guard requirement for Combat System Suites for new construction ships under the Coast Guard Integrated Deepwater System Replacement Project. Under inter-service agreement (delineated in OPNAVINST 4000.79A), DON provides the combat, detection, and electronic systems required for the Coast Guard to integrate with the Navy in times of war and conflict. Ship Construction costs are funded under the Department of Transportation appropriation.

Combat System Suite procured must complement and integrate with future Navy Combat Systems. The suite is an appropriate balance of equipment to ensure the Coast Guard is prepared to accomplish its assigned Naval Warfare Tasks in concert with U.S. Navy units. The Combat Systems Suite will be aligned with future Naval ship building programs to support commonality among the two Services' systems and meet National Fleet objectives.

The Deepwater Combat Suites will include the following:

Detection Systems - Provides radar, Electro-Optical Sensor, and EW systems to search, detect, track and ID surface and air contacts. Provides situation awareness with which to make tactical decision, and allows for timely defensive evasion/avoidance action.

Control Systems - Provides multi-sensor integration, embedded doctrine, improved decision making efficiency, and critical function availability.

Engagement - Provides decoy systems to engage surface and air threats to achieve mission kill against anticipated threats.

P-1 SHOPPING LIST

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CLASSIFICATION:

**UNCLASSIFIED** 

DD Form 2454, JUN 86

### CLASSIFICATION: UNCLASSIFIED

_	WEAPONS SYSTEM P-5		NALYSIS			Weapon Sy	stem							DATE: Februa	ry 2004
Other P	RIATION/BUDGET ACTIVITY rocurement, Navy DMMUNICATIONS & ELECTRON		IPMENT			ID Code		GUARD E	RE/SUBHEAD	3LI: 3620	00			SUBHEAD:	A2CG
3, 1, 2, 0,		1.0 2 40		ST IN TH	OUSANDS (	OF DOLLAR	RS	COARD E	ZOII WILITI	JLI. 0020					ALUU
COST	ELEMENT OF COST	ID Code									FY 2004	4		FY 2005	
CODE		Code								Quantity	Unit Cost	Total Cost	Quantity	FY 2005  y Unit Cost	Total Co
	DEEP WATER Combat Suites														
:G001	Detection Systems SPQ 9B Radar SLQ 32									1 1	6,800 1,620	6,800 1,620		6,100	6,10
	MK 46 Mod 1 Optical Sighting									1	1,669	1,669			
G002	Combat Integration System									1	1,200	2,400			
G003	Engagement														1,53
			0				0		0			12,489			7,6

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

ITEM NO. 88

PAGE NO. 2

CLASSIFICATION:

# **UNCLASSIFIED**

BUDGET PROCUREME	NT HISTO	RY AND PL	ANNING EXHIBIT	(P-5A)		Weapon System		A. DATE		
B. APPROPRIATION/BUDGET A					C. P-1 ITEM NON	MENCLATURE			ebruary 20 SUBHEAD	004
Other Procurement, Na COMMUNICATIONS & I		NIC EQUIPI	MENT		COAST GUA	ARD EQUIPMENT BLI:	362000			A2CG
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>FY 2004</b> AN/SPQ-9B Radar	1	6,800	NAVSEA			Northrop Grumman	TBD	TBD	TBD	TBD
AN/SLQ-32A(V)2 SEWIP	1	1,620	NAVSEA			NSWC, Crane	TBD	TBD	TBD	TBD
System	1	1,669	NAVSEA			Kollmorgen	Mar 04	TBD	TBD	TBD
Combat Integration System	2	1,200	NAVSEA			NSWC, Louisville	TBD	TBD	TBD	TBD
<b>FY 2005</b> AN/SPQ-9B Radar	1	6,100	NAVSEA			Northrop Grumman	TBD	TBD	TBD	TBD
D. REMARKS										

DD Form 2446-1, JUL 87 P-1 SHOPPING LIST PAGE NO. Classification:

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